





tandard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur.

NEWS and COMMENT

Diary News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters Societies and Institutions

SECTION TECHNICAL

Information Sheets Information Centre Current Technique Questions and Answers Prices The Industry

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BUILDINGS CURRENTSTATISTICS *HOUSING*

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No. 2829] [Vol. 109 PRESS THE ARCHITECTURAL 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. 'Phone: Whitehall 0611

> Price 9d. Registered as a Newspaper.

A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

| AA. | Architectural Association, 34/6, Bedford Square, W.C.1. | Museum 0974 |
|------|--|-----------------|
| AAI | Association of Art Institutions. Secy.: W. Marlborough Whitehead | i, "Dyneley," |
| | Castle Hill, Avenue, Berkhampstead, Herts. | |
| ABS | Architects' Benevolent Society. 66, Portland Place, W.1. | Welbeck 5721 |
| ABT | Association of Building Technicians. 5, Ashley Place, S.W.1. | Victoria 0447-8 |
| ACGB | Arts Council of Great Britain. 4, St. James' Square, S.W.1. | Whitehall 9737 |
| ADA | Aluminium Development Association. 33, Grosvenor Street, W.1. | Mayfair 7501/8 |
| APRR | PRR Association for Planning and Regional Reconstruction. 34, Gordon | |
| | Square, W.C.1. | Euston 2158-9 |

Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.

Architects' Registration Council. 68, Portland Place, W.1. Well Architectural Science Board of the Royal Institute of British Architects. ArchSA Ardwick 3480 ARCUK Welbeck 9738 ASB

66, Portland Place, W.1. Welbeck 5721 **AScW** Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.

Board of Architectural Education. 66, Portland Place, W.1. Welbeck 5721
Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.I.
Reliance 7611, Ext. 1706
Mayoria 8641/6 Board of Architectural Education. BAE BATC BC Building Centre. 9, Conduit Street, W.1. Mayfair 8641/6

BCC British Colour Council. 13, Portman Square, W.1. Welbeck 4185 BCCF British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869 BCIRA British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716 British Door Association. 43, George Street, Croydon. **BDA** Croydon 5452 BEDA British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434 BGC British Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554

BGF British Gas Federation. 1, Grosvenor Place, S.W.1 Sloane 8266 British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.

Glasgow Central 2891 V.C.1. Euston 5385 BIAE British Institute of Adult Education. 29, Tavistock Square, W.C.1. RID Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772 Building Industries National Council. 11, Weymouth Street, W.1. BINC Langham 2785 Board of Trade. Millbank, S.W.1. Building Research Station. Bucknalls Lane, Watford Whitehall 5140 BOT BRS Garston 2246 Mayfair 0515 BSA Abbey 3333 Holborn 8146/7 BSI

BTE CABAS Newport 3111 CAS

Building Research Station. Bucknalls Lane, Watford
Building Societies Association. 14, Park Street, W.1.

British Standards Institution. 28, Victoria Street, S.W.1.
Building Trades Exhibition. 4, Vernon Place, W.C.1.

City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A.,
Borough Architect, Town Hall, Newport, Mon. New
County Architects Society. C/o A. Guy Chant, F.R.I.B.A.

Salop County Council, 5, Belmont, Shrewsbury. Shrewsl
Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.
Copper Development Association. Schodals Hall, Radlett, Herts.
Central Institute of Art and Design. 41, 42, Dover Street, W.1.
Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, St.
Council of Industrial Design. Tilbury House, Petty France, S.W.1. White
Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.

Kensin Shrewsbury 3031 Sloane 5255 CCA Radlett 5616 CDA CIAD Regent 3074 Switzerland CID Whitehall 6322

Kensington 8161 Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 **CPRE** Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1 **CUJC**

Victoria 1534 Design and Industries Association. 13, Suffolk Street, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. Electricity Commission. Savoy Court, Strand, W.C.2. English Joinery Manufactures Association (V.C.2.) Whitehall 0540 DIA DOT Victoria 9040 Temple Bar 7565 Sackville House, English Joinery Manufacturers Association (Incorporated). EJMA 40, Piccadilly, W.1. Regent 4448

English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. **EPNS** FAS Sloane 2837 FB 1951 Waterloo 1951

Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.
Federation of Association of Specialists and Sub Contractors.
21, Tothill Street, S.W.1.
Federation of British Industries. 21, Tothill Street, S.W.1.
Forestry Commission. 25, Savile Row, W.1.
Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. FASSC Whitehall 9606 FBI Whitehall 6711

FC FCMI

Sloane 1002 **FDMA** The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs FLD Ulverston 201

FMB Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Federation of Registered House Builders. 82, New Cavendish Street, W.1.

Langham 4041 FRHB

FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837 Sloane 2844 Georgian Group. 27, Grosvenor Place, S.W.1. Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. GG HC IAAS Whitehall 2881

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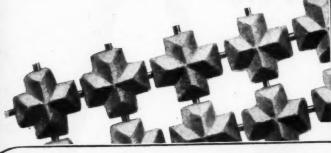
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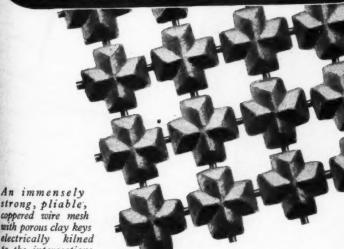












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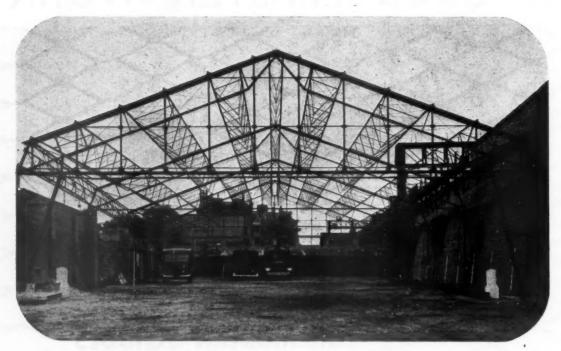
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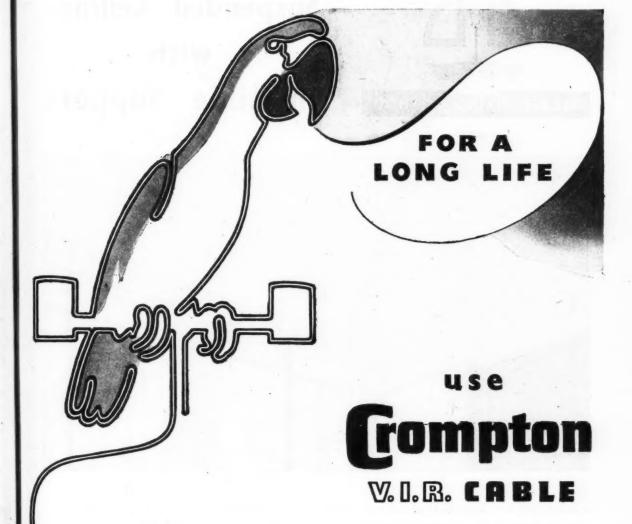
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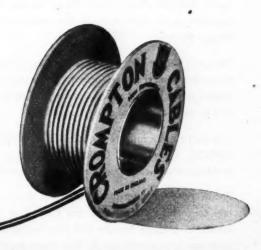
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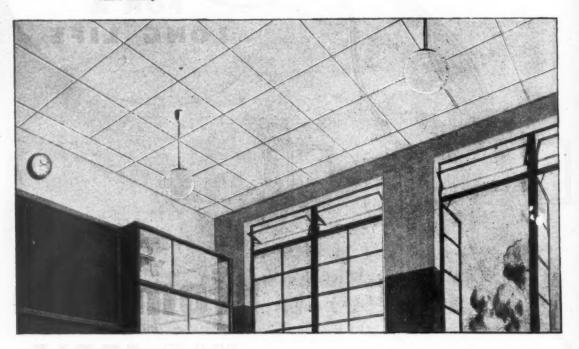
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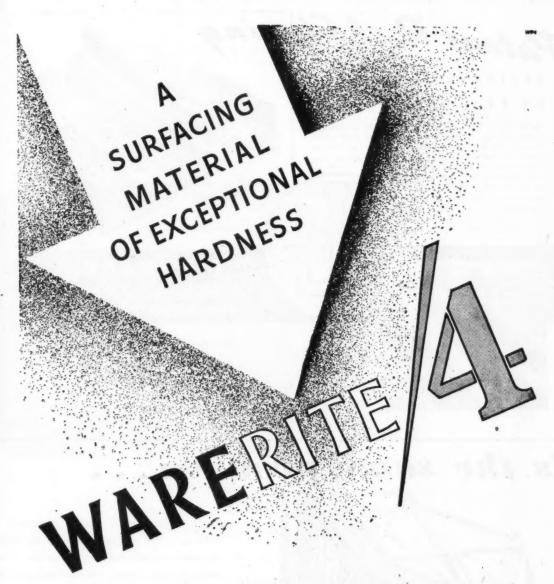
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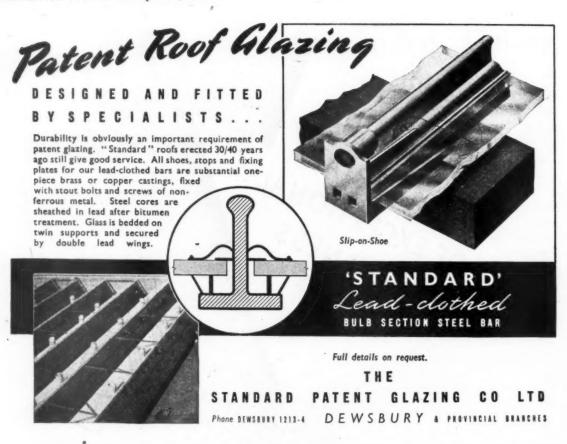
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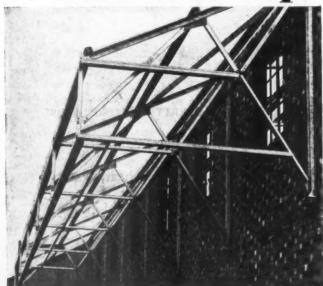
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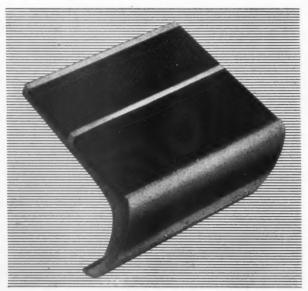
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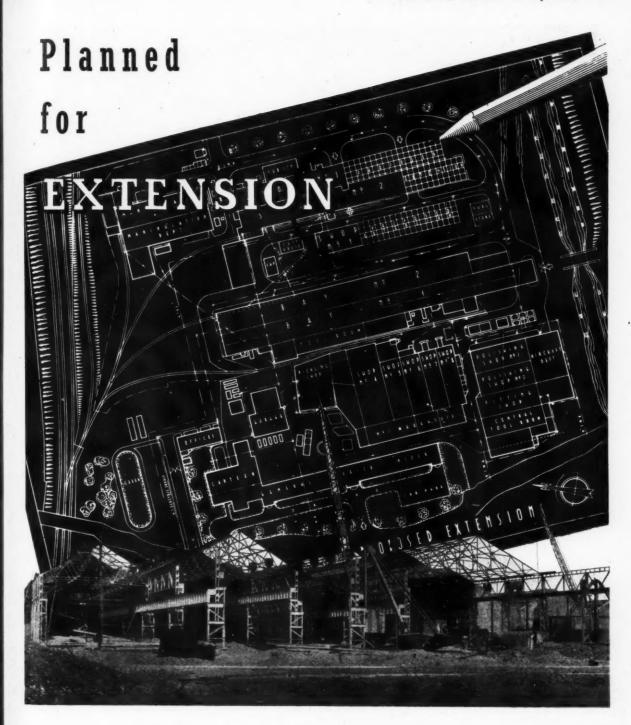
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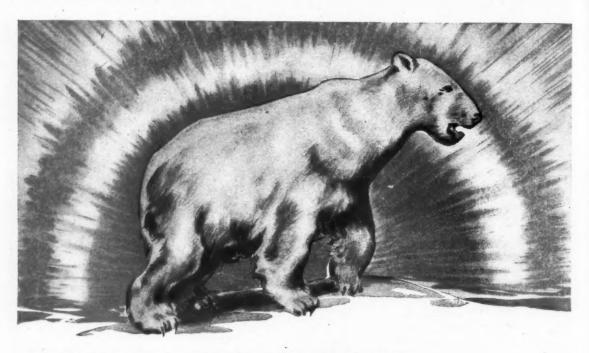
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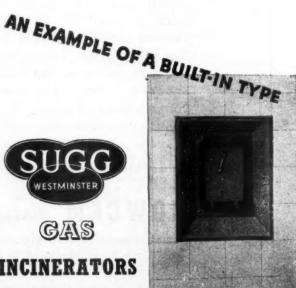
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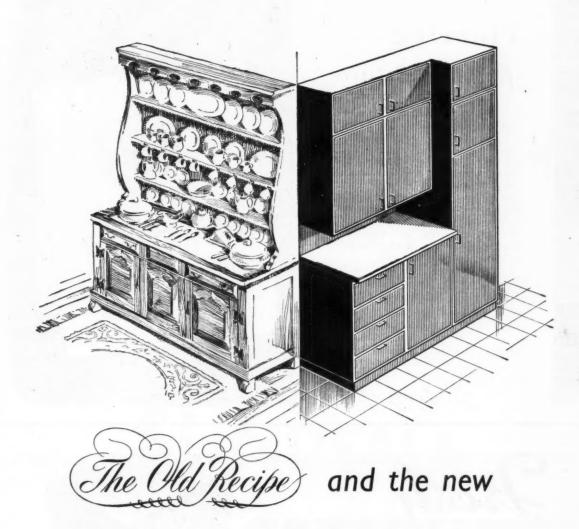
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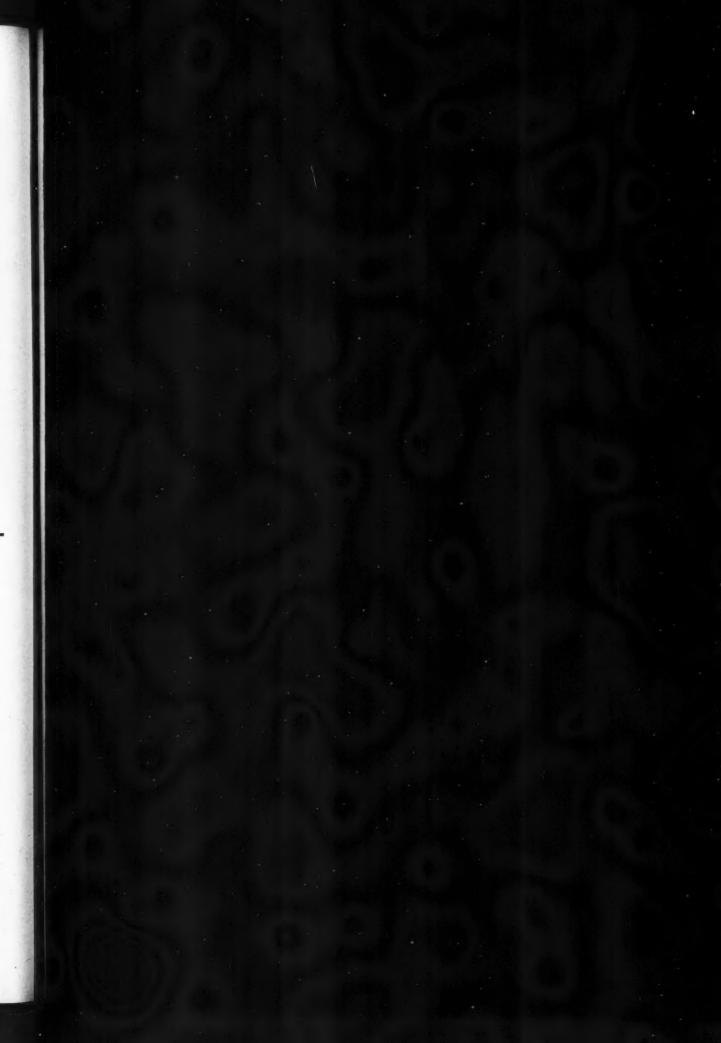
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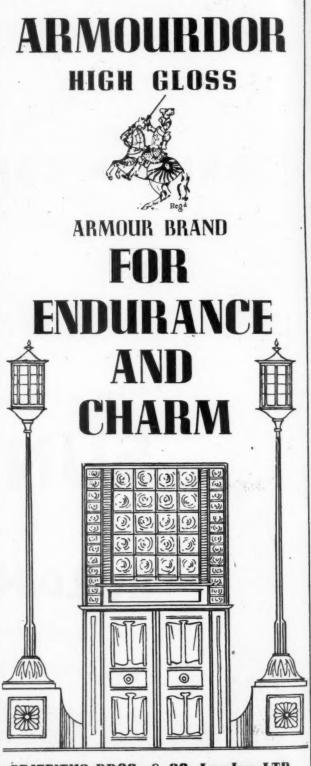
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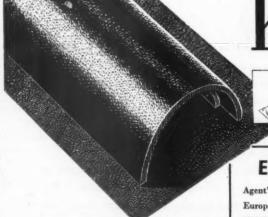
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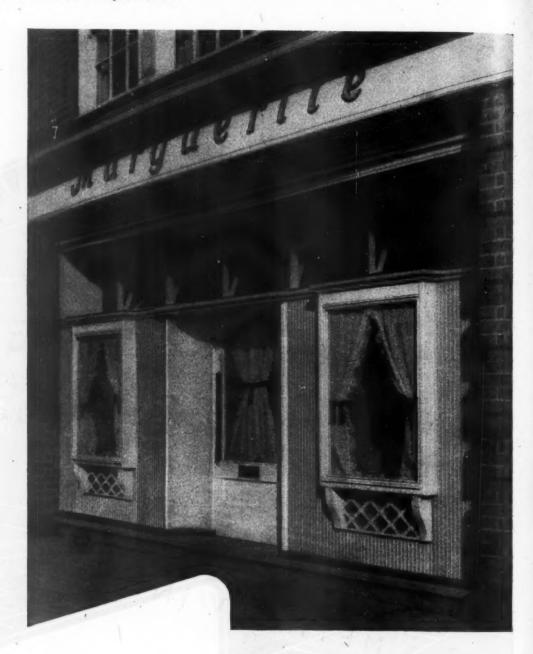
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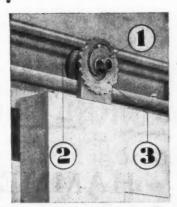
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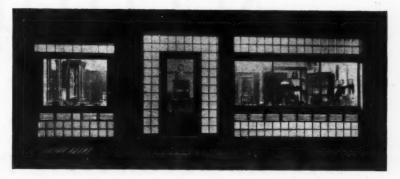
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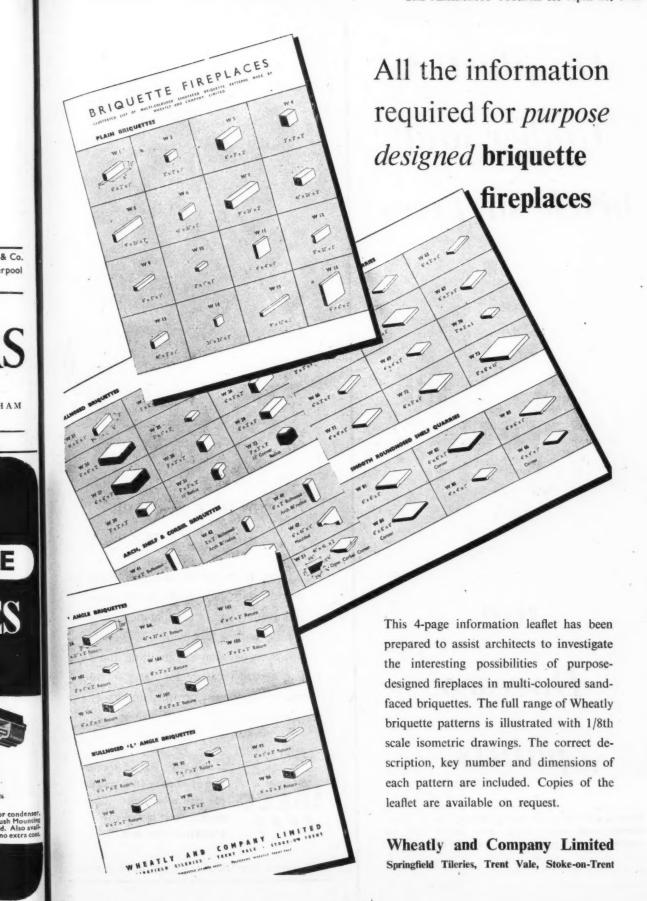
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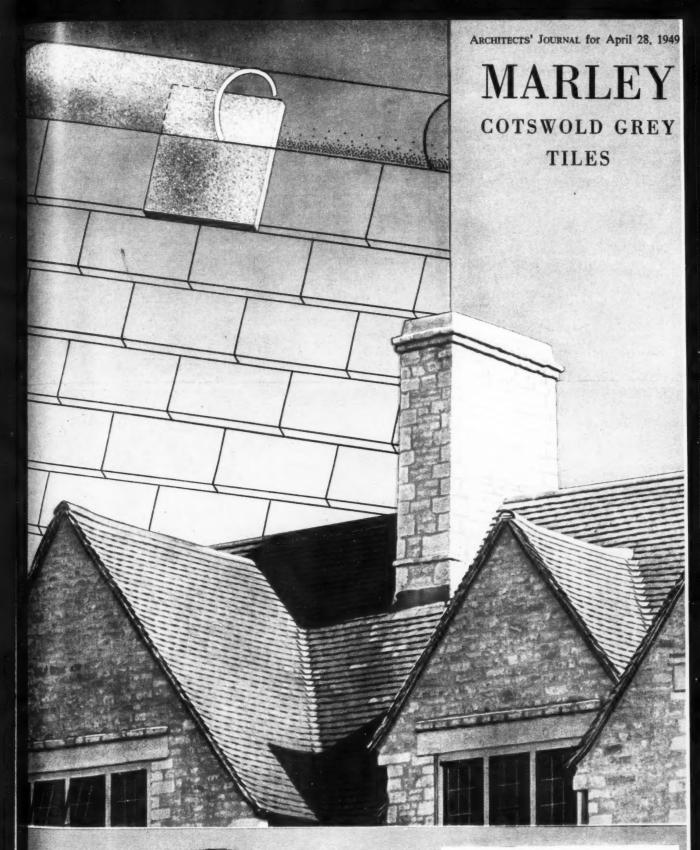


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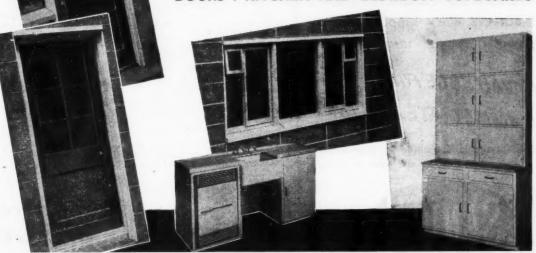




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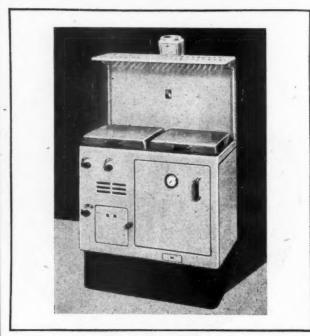
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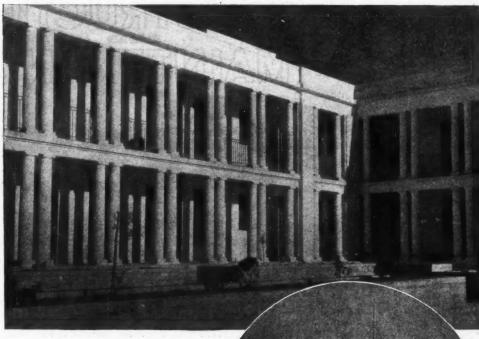
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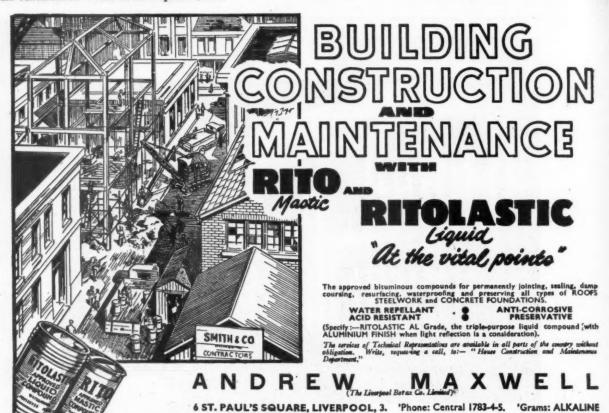
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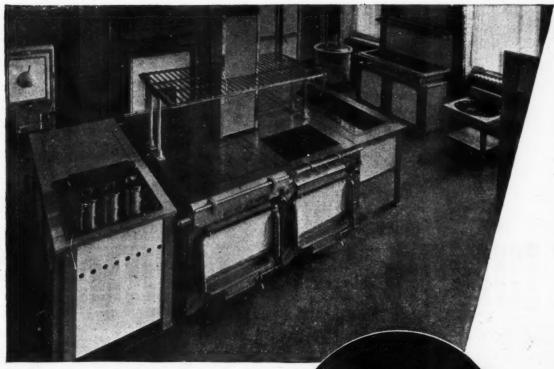
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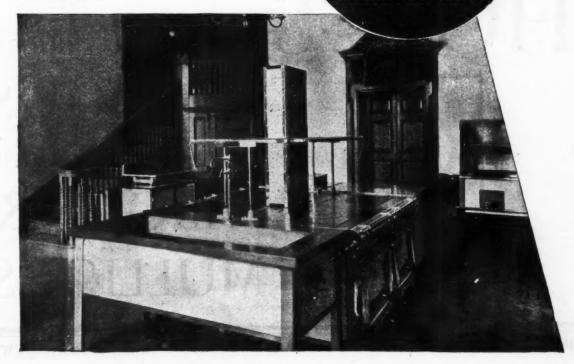


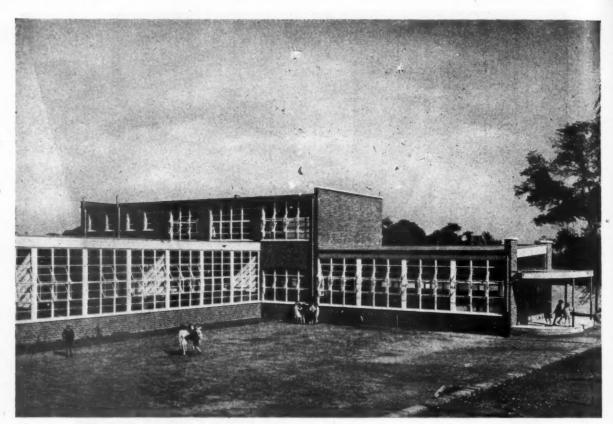
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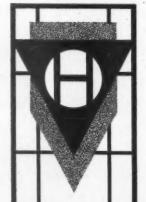
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DIARY FOR APRIL MAY AND

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

A BERDEEN. Trade Exhibition. At the Caledonian Hotel, Aberdeen. (Sponsor, D. Anderson & Son Ltd.) May 10-12

AMSTERDAM. International Exhibition of Industrial Design. Stedeljk Municipal Museum. (Sponsors of British section, British Council and Council of Industrial Design.)

BIRMINGHAM. British Industries Fair. Castle Bromwich, Birmingham. MAY 2-13

BRADFORD. Design Week organized by the Council of Industrial Design. Details to be announced locally. SEPT. 12-17

BRISTOL. Design Week organized by the Council of Industrial Design. Details to be announced locally. June 13-18

DUNDEE. Trade Exhibition. At the Royal British Hotel, Dundee. (Sponsor, D. Anderson & Son Ltd.) UNTIL APRIL 28

FOLKESTONE. TPI Country Meeting. W. L. Platts. Administrative Problems in Relation to Securing Amenity. Sir Patrick Abercrombie. Some Planning Problems of Coastal Towns. At Folkestone. MAY 20-22

The Twenty-third Annual Country Meeting of the Town Planning Institute. At the Hotel Metropole, Folkestone. May 20-22

INVERNESS. Trade Exhibition. At the Caledonian Hotel, Inverness. (Sponsor, D. Anderson & Son Ltd.) May 17-19

L EICESTER. Leicester and Leicestershire Industries Exhibition and Trade Fair. At the Granby Halls, Leicester. May 19-28

ONDON. Reception by the President and Mrs. Waterhouse. At the RIBA, 66, Portland Place, W.1. 8.15 p.m.-12 mid-APRIL 29

The Royal Academy Summer Exhibition. At Burlington House, Piccadilly, W.1. APR. 30-Aug. 7

British Industries Fair. London, Earls Court and Olympia. MAY 2-13 At the

RIBA Annual General Meeting. At RIBA, 66, Portland Place, W.1. 6 p.m. MAY 3

Exhibition of Packaging Materials at Murray House Exhibition Hall, Murray House, Petty France, S.W.1. (Sponsors, Institute of Packaging and Printing, in collaboration with the CID.)

MAY 3-31 Mr. E. B. Hugh-Jones. Safety as a Factor

of Road Design, Construction and Layout.
The First Rees Jeffrey's Triennial Lecture.
At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, TPI.) 5.30 MAY 5

Open-air exhibition of paintings in the Embankment Gardens. (Sponsor, LCC.) Weekdays. May 9-21

Building and Engineering Exhibition (Equipment and Materials.) At the Horticultural Hall, S.W.1. (Sponsor, "Britain's May 16-27

Open Day. Representatives of industrial organizations invited to visit National Physical Laboratory at Teddington. 2.30 p.m.-6.30 p.m.

RIBA Council Election Results. Charles Woodward and Sydney Redfern. Questions and Answers in Practice. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA)

TPI Annual General Meeting. In the Assembly Room, Central Hall, Westminster. In the 5.30 p.m. JUNE 23

NORWICH. Allied Ironfounders' Ex-hibition Train. Royal Dock, Norwich (Thorpe) Station. (Sponsor, Allied Iron-founders.) UNTIL APRIL 30

NOTTINGHAMSHIRE. RIBA branch library, Stapleford. At the county

RIBA New Schools Exhibition. At the county branch library, Retford. MAY 2-7

RIBA New Schools Exhibition. At county branch library, West Bridgford. At the MAY 23-28

British Architects' Conference. To be held at Nottingham. (Sponsor, RIBA.) JUNE 29-JULY 2

SOUTHAMPTON. Design Week organized by the Council of Industrial Design. Details to be announced locally. July 11-16

ANDREWS. Town and Country Planning Summer School. At the University of St. Andrews, Fife. (Sponsor, At the TPI.) **AUGUST 20-27**

COMPETITIONS

COMPETITIONS
Fleet Air Arm Memorial of the 1939-45
War, at Lee-on-Solent, for the Imperial War
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Graves Commission, 32, Grosvenor Gardens,
London, S.W.1. Closing date, May 20, 1949.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Details to be announced by The In-75, Eaton Place, Belgrave Square,

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

* means spare a second for this, it will probably be worth it.

** means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

THE SOUTH KIRKBY IN-DUSTRIAL SITE was opened on Saturday by the President of the BOT. This venture is being financed wholly by the Hemsworth rural district council and was unanimously decided upon because the town lies in the South Yorkshire coalfield and has a history of bitter poverty in the years following the great strike of 1926. The council proposes to develop 209 acres of firm land in an area subject to mining subsidence. This land, which was found for the council by the BOT and the MTCP, after a survey, will be developed in four stages. The first, which was begun on Saturday, is the purchase and servicing of a three-sided industrial site around a private estate; the second will take in the estate to make the site roughly square, if the council's recent application for a compulsory purchase order is approved; the third would add as much again southwards, should results warrant, bringing up the industrial area to 141 acres; and the fourth would establish a housing estate to the west beyond a green belt, again dependent upon success in the earlier Saturday by the President of the BOT. estate to the west beyond a green belt, again dependent upon success in the earlier stages.

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From AN ARCHITECT'S Commonplace Book

CREATIVE CO-OPERATION. [From Mechanisation Takes Command, by S. Giedion (Oxford University Press).] The art and architecture of our day show many facets. A movement may represent but one segment, a single trend within our time. But different as the trends may be in themselves, each works with means of its own to clarify reality. As a whole they constitute the vision of our time. And when a movement ends or flows into another, it still remains a living parcel of our consciousness. No single country, no one person, has created our furniture or the equipment of the house. Each land contributed its atmosphere, its talents, whenever an idea was being worked out. This co-operation guarantees the validity of the whole development. No sooner has a new idea appeared—the tubular chair for instance—than its implications are worked out by new creative talents, only to return to the inventor who resolves them into standard form. As in all periods, there is continued give and take, an unconscious but active collaboration. Yet the manner of invention is different from that in the patent-furniture era. Invention of form now takes precedence. Inventors are no longer anonymous like the subscribers in the telephone directory. Their names and personalities are all sharply defined, and often behind an abstract form we may perceive the contribution of a country or of an individual.

A BRONZE STATUE OF LORD NUFFIELD is to be unveiled in the quadrangle of Guy's Hospital next month. The statue, which is 7 ft. high, is in recognition of the generous gifts to Guy's from Lord Nuffield, who is president of the hospital. The sculptor is Mr. Maurice Lambert.

WESTAILNSTER SCHOOL'S
COLLEGE DORMITORY is being restored.
Sir Hubert Worthington is responsible for the rebuilding and restoration of this dormitory, designed by Christopher Wren, which was severely damaged in an air raid on London in 1941. The building will retain its historic exterior and Bath stone cornice. The interior will be completely remodelled. Three storeys will take the place of the original two.
Licences have also been obtained for the

Licences have also been obtained for the rebuilding of other badly damaged parts of the school. Funds for the rebuilding are provided by the War Memorial Fund, closed some months ago at £40,000.

Representatives of the Industrial Organizations may visit the NATIONAL PHYSICAL LABORATORY on May 26. The Department of Scientific and Industrial Research have arranged this "open day" to that members of industry may see the wide range of scientific research and investigational work undertaken at the laboratory. A number of tickets is being reserved for postal applications. Those who would like to visit the laboratory are invited to apply to the Director, National Physical Laboratory, Teddington, Middle-ex, not later than May 14.

EXPERIMENTAL HOUSES
ARE TO BE BUILT on the recommendation of the Advisory Council on
Building Research and Development.
The first report of the council has been
published by HMSO at 6d.
The council endorses a recommendation
of the Scientific Advisory Council that
possibly 150 houses should be built in
various regions in connection with an

attempt to determine the types of house design, services, and equipment likely to

ensure the best living conditions in low-cost houses.

It is proposed that 10 houses should be built on each of 15 sites. Of prescribed superficial areas, they would be in pairs facing south, and heat insulation would conform to a specified standard. In all else, each house would differ from others on a site. For instance, there would be three ground-floor plans, differences in first-floor plans, three systems of heating, variations in materials, ventilation, cooking and food storage facilities, and in many appliances and fittings.

Preparations for work have been com-

Preparations for work have been completed on three sites in Scotland, and the London County Council has selected three other sites for development. It is expected that the results of the trials will be of prime importance to health departments, local authorities, and housebuilders throughout the country.

out the country.

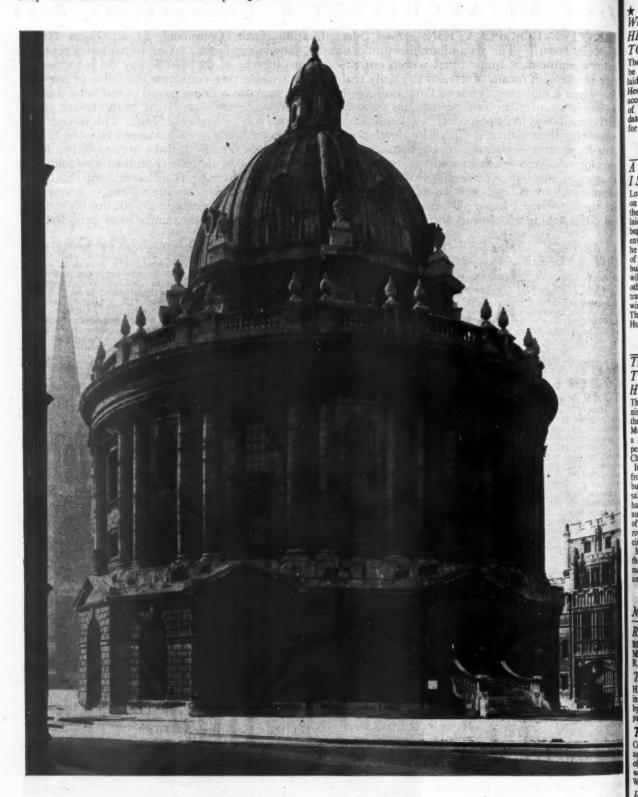
The report also suggests that an experiment involving construction of 400 to 500 houses should be made to decide whether economies can be achieved by extending non-traditional techniques to all parts of house construction.

We regret to record the DEATH OF LORD UTHWATT on April 24. Lord Uthwatt, who had been a Lord of Appeal in Ordinary since 1946, gave his name to the report that preceded the introduction of the Town and Country Planning Act, 1947. It was in January, 1941, that he was appointed chairman of a committee set up to examine the question of compensation for sites in bombed areas with a view to preverting land speculation. The Uthwatt report, issued in its final form more than 18 months later, provided a comprehensive survey of a complicated subject. Although its main recommendations were not adopted, the report was of the greatest importance in paving the way for legislation. A year ago he became chairman of a committee which is considering reforms of leasehold tenure and has just completed the first part of its work.

is on view at the offices of the Ministry of Town and Country Planning, 19, St. James's Square, S.W.I. This exhibition, which covers many aspects of planning, was designed by the Design Research Unit of the British Council for an overseas tour last year. It is now available for loan to local authorities, who should address enquiries to the chief information officer of the MTCP at 32-33, St. James's Square, S.W.I.



The west elevation of the BIF exhibition, designed by Harry W. Weedon and Partners, Birmingham. The exhibition will be open from May 2 to 13.



A 200th Anniversary

Last week Oxford celebrated the anniversary of the opening, two centuries ago, of the Radcliffe Camera. The gift of a Bloomsbury physician, Dr. John Radcliffe, the Camera is welf known as the design of James Gibbs, but it is a design which is unlike any other building by him.

An article by S. Lang in the Architectural Review for April shows that it was Nicholas Hawksmoor who was largely responsible for the initial conception of the design, and that Gibbs' rôle was mainly that of working out Hawksmoor's original idea.

Work on the FIRST HOUSE AT HEMEL HEMPSTEAD NEW TOWN commenced on April 23. The foundation stone of the first house to be built in the new satellite town was laid by the mayor of Hemel Hempstead, Herts. The development corporation have accepted a tender for the first 100 houses of a unit which will eventually accommodate 6,000 people. Plans have been passed for a further 133 houses.

A NEW OXFORD COLLEGE IS TO BE BUILT.

Lord Nuffield was present at a ceremony on April 21 when the foundation stone of the college which will bear his name was laid by Lord Halifax. This marked the beginning of the full constructional plan envisaged by Lord Nuffield in 1937, when he offered the University a site to the north of the Castle Mound and £900,000 for the building and endowment of the college. It will be built in Clipsham stone, like many other Oxford buildings, and will follow traditional lines with gables and dormer windows. Building will take many xears. The architects are Harrison, Barnes and Hubbard.

THE SCHEME FOR A NEW TOWN'AT MOBBERLEY HAS BEEN MODIFIED.

The Minister of Town and Country Planning, Mr. Lewis Silkin, has announced that, under a conditional agreement the Manchester planning authority is to build a new jown for between 20,000 and 30,000 people at Mobberley, near Knutsford, Cheshire.

It was originally hoped that 60,000 people from Manchester would be housed here, but part of the land was found liable to alt mining subsidence. A modified scheme has been accepted which will enable the authority to make a start in rehousing some of the 150,000 people for whom living room is to be provided outside the present city boundary.

city boundary.

Mr. Silkin has said that his agreement that Manchester should go ahead with the modified scheme must not be regarded in any way as establishing a precedent.

NEWS IN BRIEF

RIBA members appointed to the ISI Committee on Modular Planning are Ir. P. L. Cooke, Mr. D. Dex Harrison, Mr. R. N. Wakelin and Mr. J. R. Weeks.

The opening of the RIBA by HM King George V and HM Queen Mary, is 1934, is to be permanently commemorated by the placing of an inscription on a wall much at the Institute's headquarters.

The Furniture Development Council have appointed Mr. Jack Pritchard as their director and secretary. He was one of the three independent members of the working party which drew up the Furniture Working Party Report.

Hassan Fathi Bey, Director of Building in the Egyptian Ministry of Education, recently visited Britain under the auspices of the British Council, to study examples of British architecture.

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Mr. T. S. Davies, F.R.I.B.A., Chief Assistant Architect, Shropshire County Council, has been appointed Deputy County Architect to Caernarvonshire County Council as from May 1, 1949.

BUILDING EMPLOYMENT

A CCORDING to the Economic Survey of 1948 there should have been 1,200,000 persons employed in the building and civil engineering industry at the end of that year; in fact there were 1,357,000, an excess of 157,000. Not too serious a view should be taken of this failure, say the Government spokesmen. But it is difficult to see what is the point of having "manpower targets," "output targets," and so forth if it does not matter in the least whether or not they are achieved.

For if the employment target in 1948 was, after all, of little significance, what is to be said about the housing target for 1949? The latest Economic Survey suggests that the value of work to be done on housing (new construction and maintenance) should fall very considerably, from £477 millions in 1948 to £421 millions in 1949. Is this a sliding target or merely a pious hope? And what are the true prospects for the industry in 1949?

The excess of labour in 1948 was the result of a movement of labour from new housing to less essential work after licensing restrictions were eased. Is 1949 going to see a further drift of this kind? When planners cease to plan it is time to take stock of the situation.

While housing work of all kinds is supposed to run at about £50 millions (11 or 12 per cent.) less in 1949 than in 1948, building work on schools is supposed to increase by about £18 millions. Defence and administration will take an extra £9 millions and there are to be other increases in industry generally. But since some of the new building programmes will take time to start, there may be a falling off in the demand for new building. Are the small works to be allowed to absorb any slack?

Since labour is now so plentiful—even according to the latest target not much of it is to be surrendered to other industries—and criticism is beginning to be heard from the timber interests about the national habit of assuming that timber is in short supply, a political agitation for a larger housing programme is bound to develop. Indeed, some Conservative speakers have already taken this line of attack, and Labour back-benchers may adopt the same attitude.

For our own part, we would like the principle of a target either abandoned or fulfilled. If the employment figure in building is to remain high, and if the supply of materials is really becoming easier, surely there should be plans ready for increasing the speed of development of the new towns, and the satellites of northern and midland conurbations. Not much town planning will see fruition in the next twenty years unless a substantial start on these long-discussed projects is soon made. To fritter away our allegedly scarce building resources on small extensions and decorations is to waste an opportunity that may not recur. We should be ready to put an extra 25,000 or 50,000 houses into the programme immediately that becomes possible. For architects this question of targets is of particular import-

ance, for if the original idea of a ten-year building programme is to be abandoned that means the end of many plans for expansion in training and education. If the new programme is kept flexible—and allowed to expand sometimes, not to be treated only as a convenient subject for "capital cuts"—then there is some hope that this country will not only build much, but build, literally, according to plan.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

N O T E S &

EXTINGUISHER OR SPARK?

Only too frequently ministerial blanketed initiative becomes bureaucratic execution. It is hoped that the decision of the Ministry of Education to set up a small Development Group to carry out studies of the design and construction of schools, as reported in AJ April 14, will not meet a like fate. While other ministries in which architects are interested appear to be going back on their early promise of great achievement, the MOE seems to be keeping at least abreast of architects and will shortly, if the intention of the Development Group is achieved, be well in the lead.

It is widely assumed that the teaching unit in a modern school must of necessity, because of ministry requirements, remain a plain rectangular box with a shed or a flat roof. The striking uniformity of the class-rooms in the new schools appears to be due partly to architects' fear of venturing

without precedent and partly to the haste with which many schools have to be designed.

The first of these two restraints will, it is hoped, be eliminated when the new Development Group has really got down to work. The second is more difficult, though commissioning architects now to design schools for the programme of two or three years ahead might help.

That this new arm of the MOE will be of value to architects is guaranteed by those composing it. Anthony Pott has been eminently successful at the BRS in keeping building research and development at the service of architects, who have been able to add vicariously and enormously to their experience. The lessons learnt by Hertfordshire will also now be available to all architects engaged in designing schools. We will be hearing from these people.

ON PLANNING A TOWN

A few architects may remember that last June an exhibition on Town Planning was displayed for a day at the RIBA prior to being sent to Germany and Australia by the British Council. The attractive stands are the work of the Design Research Unit. The exhibition, having returned from abroad in a knocked-about state, has been given to the MOTCP, who have made a brand-new copy of it. This they offer to any local authority or society who wants to enveigle the public into studying the abc of town planning.

We have trailed so far along the path of no-planning in the past year, that it is interesting to look again at a serious study of planning principles in diagrammatic form. The first few displays are excellent, covering surveys, zoning for industry, ring roads, day-lighting requirements, and so on, but suddenly the whole attitude changes, and one is confronted by the slick sketches of the town planners' dreamland. Drawings or photos of models show miles and miles of odd-shaped buildings replacing the centres of Manchester or Middlesbrough with hardly an existing building left.

And now, a year after that exhibition was designed, not a single street has been completed in a new town. It is still too soon to begin to think of actually pulling houses down. We will need every rickety house or office for a good many years yet.

Are there any planners still left in cloud cuckoo land? I trust not, because the great tragedy is that such an unworldly approach to planning only causes cynicism and distrust of planners on the part of the public. As a profession suffering severely from the effects of the same attitude, architects can well advise town-planners of the necessity of realism in design.

VISABILITY POOR

You would have thought that after all the trouble with visas, which led to the postponement of the International Architectural Student Conference last January, that everything would have been straightforward this time. But once again there was visa trouble.



grammatic form. The first few disnominated as next President of the AA.



The American pre-war custom of buying English houses, dismantling them, and re-erecting them in America has recommenced. The castle shown above, built in 1832 near Ross-on-Wye, Herefordshire, has been bought for £7,000 by an American and is the first to join the post-war list of exports.

Twice the official opening had to be postponed because some ten delegates were missing, notably from Poland, Bulgaria and Rumania. Was the Home Office being difficult, or was the Iron Curtain too heavy to lift? No one seemed to know what was happening. However, the conference opened at last on Sunday morning with the familiar good will messages and the clichés about heavy responsibility, friendship and international co-operation and understanding.

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Poor students! How responsible, friendly, co-operative and understanding they all looked-and how quiet, lean, earnest, leaderless and lost, as they kicked their heels around the staircase at No. 66 waiting for the missing delegates. At least the weather was kinder than officialdom, and away they went eventually on their various visits in the bright sunshine, while Astragal pottered off round the corner to inspect the international architectural students' exhibition at the Poly.

Though an ad hoc and unassuming affair, the exhibition was interesting partly in showing the different methods of architectural education, but mainly in revealing the contemporary tenor in the various countries. Most assured and consistent were Switzerland and the Scandinavian countries. seemed more interested in students' political demonstrations and in the Imperial Palace than in contemporary architecture and planning. France was

specially interested in the æsthetics of structure, while the work from Holland was the strangest-ultra New Empiric, almost, in fact, Empire, or would it be Mannerist? In any case the Review must be circulating in the Netherlands. The English schools apparently spend the most time and trouble on presentation and rendering -almost to a fault. Can this be partly due to window-dressing by the competing schools to attract new students? There was one big gap-no America, north or south, neither continent being represented at the Conference.

These student conferences and exhibitions-not least the exhibitions-could be important and valuable affairs. Next time then, please, firmer organization, a more deliberate agenda, a bigger and better exhibition, generous financial help from the authorities (couldn't UNESCO help?) and definitely more International Co-operation and Understanding vis-á-vis visas.

RIBA QUESTIONNAIRE

By last week 10,691 architects had answered the RIBA questionnaire, and there was still a chance that the remaining 5,148 would do so in time to affect the result. Congratulations to the RIBA again on the step they have taken. This quick response should show the Institute how eager the members are to back up any action of

ASTRAGAL

LETTERS

R. A. Wale

E. N. G. Poole

R. P. Coleman

7. Butterfield

S. Spencer P. H. Sydney Smith

A former flat dweller

H. C. D. Cooper, A.R.I.B.A.

Tony Moore

A. F. Cook

LCC Housing

-We, the undersigned, are connected with housing in different degrees. We do not wish our remarks to be construed as criticism so much as a non-technical commentary. After all, we are aware that whether an architectural work is good or

whether an architectural work is good or bad, no one person can ever be pinned on as wholly responsible.

In view of the AJ Editorial for March 31 and Mr. Hayward's letter, we would only like to add here that we have inspected the blocks of flats at Flower House Estate at Lewisham. We have mutually agreed that the picture on page 246 of the JOURNAL for March 17 reproduces the atmosphere quite faithfully. It's depressing. We were painfully reminded of barracks, but, in an effort to look for the brighter side, the interiors may not be so bad.

Perhaps "the large staff of able and experienced architects" to which the LCC Leader refers has not been sufficiently encouraged to introduce their art into this work; in other words, just that slight varia-

couraged to introduce their art into this work; in other words, just that slight variation, just that extra refinement of detail, just that happier evidence of planning imagination in the layout—which would have made just that welcome difference.

Mr. Whiteley's letter points out some of these "little points that count." We feel sure that "able and experienced architects" have had very little say in the design of the above blocks, or perhaps the "flower" of their work in this instance was nipped in the bud by external and all-toourgent influences. We look forward to being further enlightened.

R. A. WALE

R. A. WALE E. N. G. POOLE R. P. COLEMAN

J. BUTTERFIELD

Beckenham.

S. SPENCER P. H. SYDNEY SMITH

Sir,—In your article, "LCC Housing; the Need for a Critical Assessment," you quote one of the most humane of civil servants as saying: "Never forget that every file is a human story."

Is it possible that one of the most architecturally prolific of the LCC valuers could have heard but misinterpreted the quotation, thus: "Never forget that every storey is a human file."

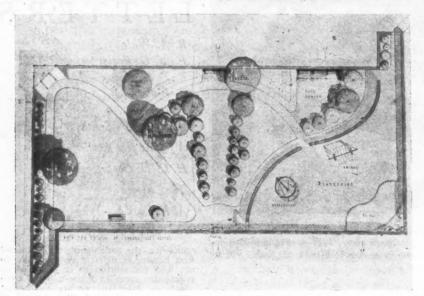
human file.

London, S.W.1. A FORMER FLAT DWELLER

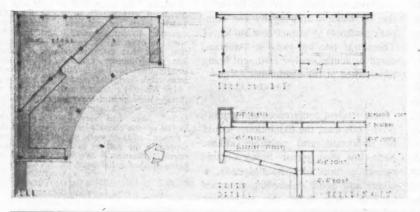
SIR,—It is, perhaps, unkind to respond to your invitation to criticize recent LCC flat schemes since all schemes sponsored by a local authority must have passed through the maelstrom of committees and emerged a compromise of conflicting opinions, perhaps far removed from their architect's original conception.

Considering the aspect of the flats in Dombey Street, Holborn, it is unlikely that windows under the access balcony will ever

DESIGN IN GARDEN COMPETITION



This winning entry in a competition for the lay-out of a garden and children's playground to the rear of the houses in Douglas Avenue, to the rear of the houses in Douglas Avenue, Walthamstow, was designed by Mr. R.L. Head, a student of the Department of Architecture and Building, South-West Essex Technical College and School of Art. The competition was open to all students of the school, which organized the competition on behalf of the promoters The Warner Estates, Ltd., Walthamstow. The assessors were Mr.F.G. Southgate, A.R.I.B.A., A.M.T.P.I., and Sir John Brown, A. E. Henson and Partners, FF.R.I.B.A. As the plan above shows, the scheme provides for good circulation between the two entrances, one of which may be seen in the bottom left-hand corner and the other at the top right-hand corner. The assessors point out that the appearance of the garden would be improved by appearance of the garden would be improved by the substitution of stone paved paths for asphalt and that one or two clusters of trees would be more effective than the alignment of trees across the site. Below are details of a tool shed, combined with a garden shelter which may be seen in the top left-hand corner of the above plan.



admit sunlight. This is disappointing in view of the opinion long held in the profession (corroborated by the census connection with post-war building studies) that kichens must have morning sunlight.

sunlight.

On the other hand, one must be thankful for the preservation of the countryside in that, in effect, fifty flats occupy the ground that might have been required for but four temporary dwellings; and the occupant of the top flat may even have a glimpse of the countryside to compensate for any discomfort he may experience fumbling with his latch in a north-easterly gale.

Deddington, Nr. Oxford. H. C. D. COOPER

-As an architectural student I feel very strongly the need for frank criticism of contemporary building, and I wish to express my support for Mr. J. M. Richards and your Journal for the recent criticism of LCC housing, which I consider takes little regard of the healthy functioning of the family, and which, by denying the use of our modern technical processes, and scientific and biological knowledge, is restricting the development of the family, and society, as a growing body. The buildings are coarse and conventional in form and the detail clums. the detail clumsy. TONY MOORE London.

Letcombe-Bassett

SIR,—Without wishing to join the main argument I think it right to enter a protest against the conclusion drawn by Mr. Fairweather, and condoned by Mr. Etchells, that the old houses can be converted to a reasonable standard of habitability at reasonable cost. In the first place, it is

unfair to compare the costs of conversion to the cost of new houses without making allowance on the latter for the fact that their standard of accommodation will be so much greater. Secondly, it is wrong that a village population should be ex-

pected to put up with lower than normal standards of habitability in order to secure the continued life of the village.

A deficiency of the Housing (Rural Workers) Acts lays in the fact that many conversions were permitted that failed to him granal cottages to a greenously conversions were permitted that failed to bring rural cottages to a reasonable standard, and such poor conversions continue to be very readily deserted by tenants in favour of better accommodation. I regret that Mr. Etchells should envisage the use of the new Housing Act for a like purpose. I agree with him that advice on "structural condition," etc., should come from a technically competent person, to the extent of specifying an architect as the proper type, but I should hope that this would not necessarily lead to complete acceptance of Mr. Fairweather's conversions. versions. Wakefield.

A. F. COOK

Parliament In

The Minister of Town and Country Planning was asked at question-time in the Commons whether any decision had yet been reached about the development of a new town in the Mobberley area of Cheshire. Lieut.-Col. W. H. Bromley-Davenport (Con., Knutsford), who put the question also asked what planning considerations had been applied, and whether the Minister was satisfied that such development was in accordance with good planning.

Mr. Lewis Silkin replied: "I decided to proceed no further with the proposal for a new town at Mobberley when it became clear that there was no site in the area sufficiently large and at the same time sufficiently

clear that there was no site in the area sum-ciently large and at the same time sufficiently free from the risk of subsidence to justify the use of the machinery provided by the New Towns Act. I hope, however, to be able to announce a decision shortly on a separate proposal by Manchester City Council to develop a limited area at Mobberley for the reception of overspill population and industry from the city. Meanwhile, I can assure the Member that all relevant planning and other considerations, including the need to provide land for Manchester's housing, will be taken into account in determine mining the nature and extent of any development."

In reply to further questions on the matter, Mr. Silkin said that the Minister of Agriculture (Mr. Tom Williams) would be consulted about the boundary of any site which it was proposed to develop, and about the stages by which land should be withdrawn from agricultural use.

Lieut. Col. Bromley-Davenport questioned the wisdom of permitting this housing development on some of the best agricultural

land in Cheshire.

Mr. Silkin said he was satisfied that there was no land of less agricultural value which would be satisfactory for the purpose. He

would be satisfactory for the purpose. He added that if there was any objection to the site which was chosen there would, of course, be a public enquiry.

Sir Richard Acland (Lab., Gravesend) asked Mr. Silkin if he would make public the final decision regarding the possibility of developing a satellite town around Meophers Vert

ham, Kent.
The Minister's answer was: "I do not propose to develop a new town at Meopham."
He told Mr. Peter Freeman (Lab., Newport) that the outline plan for South Wales and Monmouthshire was likely to be published about the end of May.

Seven-storey block from the north-east.

version making ct that will be wrong be exnormal secure (Rural many iled to sonable is contenants on. age the a like come ion, to nat this mplete con-F. COOK

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SITE PLAN (\$2.12: 170" = 1'0")

The seven-storey blocks are shown hatched.

FLATS AT HIGHGATE

DESIGNED BY T. P. BENNETT AND SON

GENERAL.—The "Hillcrest" housing site is placed on a rampart projecting from the highgate ridge, and very extensive views over the outlying suburbs are to be seen in the wide are stretching from east to northwest. The ground now occupied by the flats, originally the garden of a large house, covers 5½ acres and contains a large number of fine trees. By carefully

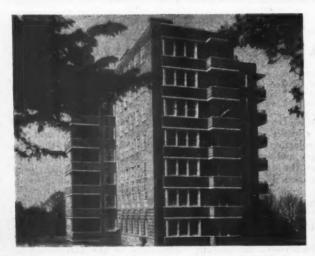
placing the buildings most of these have been saved and the park-like character of the site, which has dense woods on the steep northern side, has been retained.

LAYOUT.—Exhaustive research enabled the architects to decide that the best and most economical disposition of the flats would be



Left: the three seven-storey blocks. Below: left, a seven-storey block from the north, right: from the west.







FLATS AT HIGHGATE

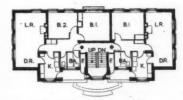


From the north-west showing the entrance front of a four-storey block. Below: one of the other four-storey blocks.

three y blocks. eft, a y block

north,

the west.



TYPICAL FLOOR PLAN
FOUR-STOREY BLOCK TYPE A

DR. K. DR.

TYPICAL FLOOR PLAN
FOUR-STOREY BLOCK TYPE B (Scale: #*=1'0"

in their distribution in several large high blocks placed on the north-east end of the site and smaller lower blocks on the west side nearer the main road. The higher blocks are built with seven storeys, the lower with four, the former containing four flats on each floor the latter two only. Each block is placed in relation to the others to give the widest outlook possible from each side and to trap the maximum of

sunlight.
The scheme now built contains 116 flats of three varying types.
Twenty-nine consist of two-room, twenty-nine of three-room and seventy-eight of four-room flats.
Each unit consists of a living room with a dining recess propor-

tioned to the size of the family expected to occupy it as well as from one to three bedrooms with a kitchen, bathroom and w.c.

(Scale: 31"=1'0")

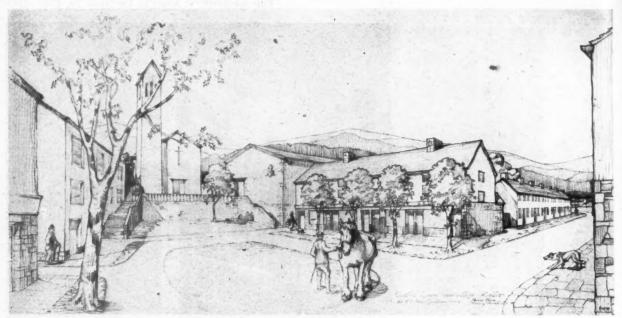
PLANNING.—Every living room and dining room is placed on a corner of the block and has windows on two sides giving an outlook in two directions admitting the maximum of sunlight.

The kitchens, bathrooms and w.c.'s are always grouped together to simplify plumbing and drainage, together with refuse chutes directly accessible in the open air on the utility balcony from the kitchen.

The main contractors were Messrs. Globe Contractors Ltd. For a list of sub-contractors see page 396.



BYT. P. BENNETT AND SON



The central square in the proposed village of Kielder, Northumberland.

TWO VILLAGES FOR THE

FORESTRY COMMISSION

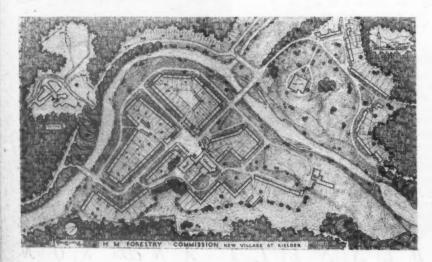
LAYOUT PLANS BY THOMAS SHARP

GENERAL.—Hitherto the Forestry Commission's housing has been undertaken in scattered groups but now that a very large housing programme must be undertaken, both for future planting operations, and for the management of the great areas already planted, it has been decided that a programme of village building shall be embarked on. Eight large new villages will be established during the next decade—several of them

will, indeed, be well on the way towards completion by the end of that time. Work on four of them will probably have been begun within the next year.

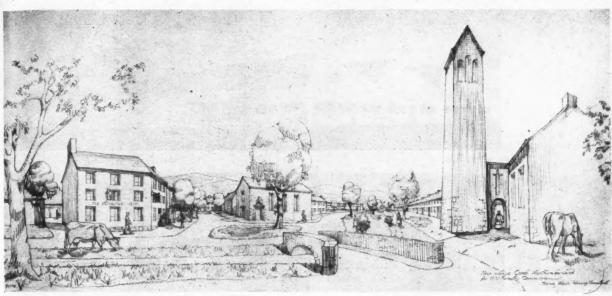
LAYOUT.—Because of the necessity of avoiding excessive travel to and from work, the villages will be situated as far up into the forest as good siting permits, bearing in mind social considerations as well as such other considerations as

topography and the provision of public utilities and other services. The terrain provides extremely few satisfactory sites, but, after a very thorough survey, attractive well-sheltered sites that are generally satisfactory from all points of view have been fixed on for all eight villages. The villages will necessarily be somewhat remote from existing settlements. But their number has been fixed so that every village shall be of a size to





Left: layout plan of the proposed village of Kielder. Above: detail plan of the central square at Kielder.



The proposed village of Comb, Northumberland.

be able to support a primary school and other necessary village institutions. Two of the villages will eventually have a population of approximately 800 or more, and none of the remainder will have less than 350. Plans of two of the first four villages, on which work is shortly to begin, are shown in the accompanying illustrations.

KIELDER.—This village of some 220 houses, will have a population of about 800. The site is a level bowl at the junction of two mountain rivers, the North Tyne and the Kielder Burn. On the north of the main part of the site, on a considerable local eminence, stands Kielder Castle. This building will be used for social purposes with clubrooms, etc., and the slopes around it will become one of the village greens, the frontages beyond being framed by houses.

The layout has been designed to

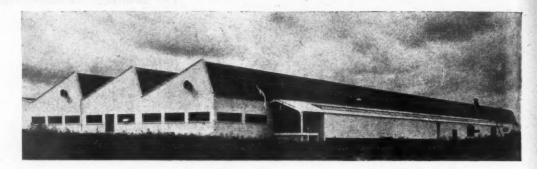
secure good village character, and a fairly substantial village centre has been planned to contain a dozen shops, two pubs, as well as the church and a village hall. This has been deliberately designed to take advantage of a terrace about 12 ft. high which occurs on this part of the site: and the church and the village hall have been situated at the top of the terrace in such a way as to create a strong architectural effect and emphasize their social importance. COMB.—This will be one of the smaller villages, containing some 125 houses and with a population of rather more than 400. It will be situated on the three or four level fields of a hill farm at the head of the narrow valley of the Tarset Burn. On its long narrow level site, with a mountain stream running through it, this village will have a most delightful situation and setting, and every effort has been made in the design of the

layout to give it a true village character.

MATERIALS.—Careful consideration has been given to the building materials in these villages. The traditional material in the scattered buildings of this very thinly populated countryside is stone, with stone slabs for the roofs. But the traditional appearance of the whole landscape will be changed: instead of bare hills there will be, as far as the eye can see, great distances of blue-green forest. It is held that since the new landscape will be quite untraditional, so may be the new buildings within it. In any case stone buildings would be over-subdued and lost in the dark colours of the forests. So it is proposed that the ordinary buildings of these villages shall be whitewashed and colour-washed, only the public buildings being in stone.

Below: layout plan of the proposed village of Comb.







Top: the factory from the south-east. Right: from the north-west.

FACTORY AT GILLINGHAM

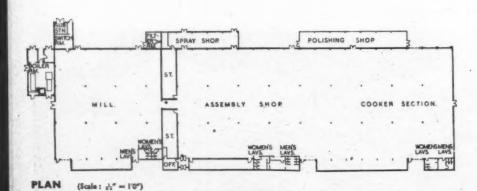
DESIGNED BY JOSEPH EMBERTON

CONSTRUCTION: The factory has a floor area of 45,000 ft. super with internal columns spaced at 35 ft. 5 in. centres in one direction and 30 ft. centres in the other. The roof is north-light with glazing the full length of the factory, unobstructed by ties, struts or any structural member.

This gives maximum floor lighting. The structure is built up of prefabricated reinforced concrete units with dry bolted joints. The structure is an advanced design and although the sections are small, the steel content is very low, the reinforcement in the concrete members being under 2 lb. per

sq. ft. of floor area. The main frames, purlins and gutters are all cast in reinforced concrete and require no painting or maintenance of any kind.

Holes for conduits, hot water pipes, lighting fixtures, etc., are cast in the concrete members in predetermined positions. The rain-





Left: the factory under construction, showing, on the right, the cantilevered rafters to the loading bay.

water pipes carrying water from the valley gutters are cast in the internal columns and discharge into drains which run under the factory floor. The trough-shaped gutters are cast in concrete, lined with bitumen sheets, and span from frame to frame. The asbestos sheeting and the patent glazing are fixed on to the edge of the gutters.

Insulation board is fixed under the corrugated asbestos sheets and over the purlins and is supported on steel tees at 2 ft. centres which span between the purlins. The structure along the front road is a 10-ft. cantilever which can be seen at the various entrances. The front wall is non-structural and takes no load from the roof. The external walling is non-load bear-

ing and can, of course, be any material but in this instance is of hollow foam slag blocks, which are extremely weather resistant and have a high insulation value.

CONCRETE CONSTRUCTION SYSTEM. — The breaking up of a monolithic rigid frame structure into transportable sections does not in any way detract from the economy and functional simplicity achieved by advanced design. The advantages of this division of the structure into units are: the units may be cast at ground level in accurate moulds; the moulds, manufactured in workshops, can be extremely accurate and may be used a great number of times.

The mould design is simplified to

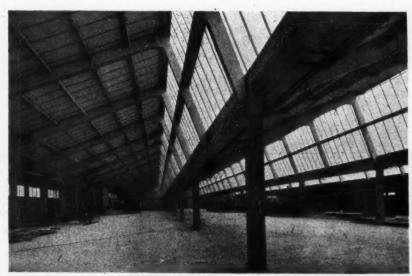
such an extent that unskilled labour can be used for assembly and striking. The reinforcement cages can be made up under workshop conditions, with increased control and greater accuracy. The concrete mix can be controlled within fine limits and thorough machine-vibration is achieved. Control of casting is extreme and a first-class finish to the units is obtainable.

The units in most cases are transportable and may be cast under cover; therefore, adverse weather conditions have less effect on progress than a cast in situ structure. Connections are the simplest type and rapid erection is possible.

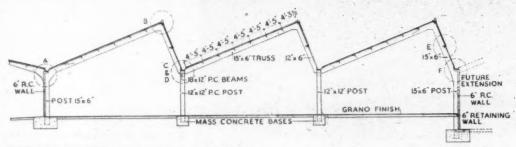
ADVANTAGES OF THE CONSTRUCTION.—The use of rigid



N



Above : left, the loading bay during construction ; right : the assembly shop, showing the precast concrete roof construction.



SECTION THROUGH ASSEMBLY SHOP

frames in the design of a structure produces clean outlines without unsightly bracing. This is particularly striking in industrial buildings with normal pitched or North-light roofs, as the light from the roof glazing is unobstructed. The structural members, being of reinforced concrete, are not attacked by normal atmosphere and maintenance is negligible. Under the heading of economy the system has several recommendations: the design and placing of the joints

asbestos sheeting-

6 x 4 hole

DETAIL AT

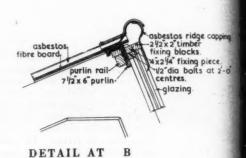
cantilever

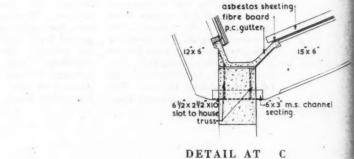
fibre board

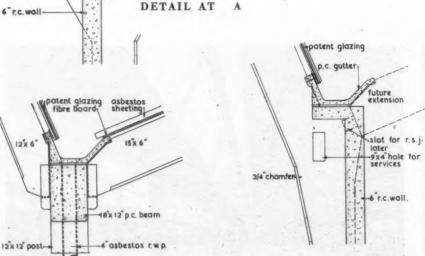
allows full advantage to be taken of advanced monolithic design and by this means the concrete sections are slender and the steel content is very low. In a single-storey building with pitched or Northlight roofs, the weight of steel in the structural members is below 2 lb. per sq. ft. of floor area covered.

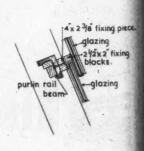
The main contractors were Messrs. London Ferro-C ncrete Ltd.

For list of sub-contractors see page 396.









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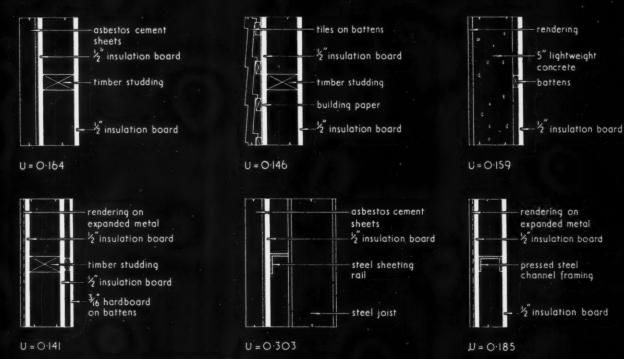
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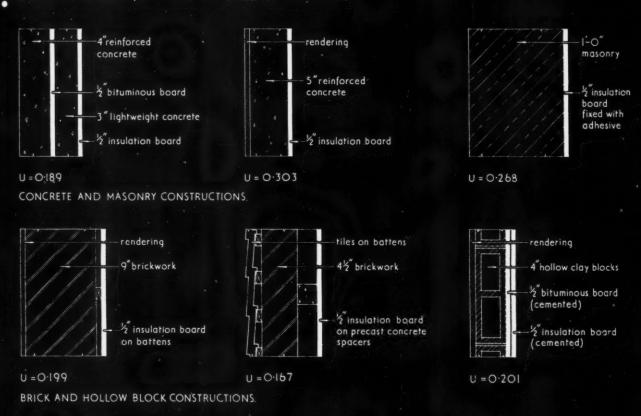
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LIGHTWEIGHT TIMBER, CONCRETE AND STEEL CONSTRUCTIONS.



LLOYD BOARDS: COMPARATIVE EFFICIENCIES OF INSULATED WALLS. Compiled by C.W. Glover and Partners for Bowaters Building Boards Ltd.

28.D1 LLOYD BOARDS; COMPARATIVE EFFICIENCIES OF INSULATED WALLS

This Sheet illustrates a range of insulated external walls and gives their calculated thermal transmittance values based on conductivities as set out in *The Computation of Heat Requirements for Buildings* published by The Institution of Heating and Ventilating Engineers.

The values (U) are expressed in B.Th.U./sq. ft./hr./°F. temperature difference.

Compiled from information supplied by t

Bowaters Building Boards Limited.

Address: 15, Portman Street, London, W.1. Telephone: Welbeck 8527.

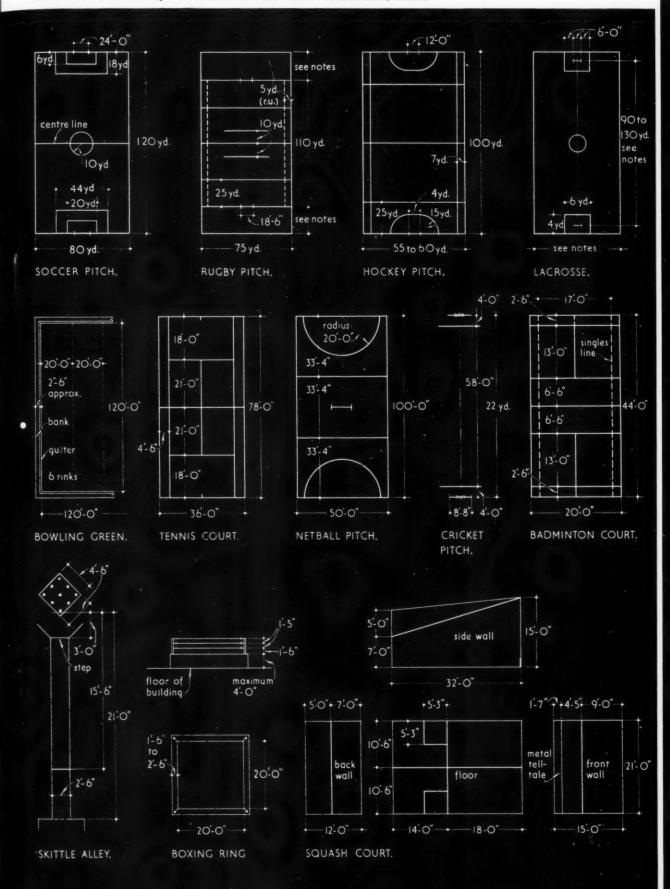
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DESIGN DATA RECREATION

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4.L1 SIZES OF SPORTS FIELDS AND COURTS (GAMES 1)

This Sheet is the first of a group setting out the standard sizes of sports fields, space for athletic activities, swimming pools and sports equipment and deals with a selection of sports fields and courts. The sizes are those for adult activities.

Soccer Pitch

The sizes given are standard international pitch sizes. In club play lengths vary from 100 to 130 yd. and widths from 50 to 100 yd. A recommended clearance at sides and ends is 10 ft.

Rugby Pitch

The sizes of the pitch itself apply to both Rugby League and Rugby Union. In Rugby League the distance from the goal line to the dead ball line is 6 to 8 yd. and in Rugby Union 25 yd. maximum. At least 10 ft. clearance should be allowed at the sides of the pitch.

Hockey Pitch

According to the N.P.F.A. the pitch markings for women's pitches vary slightly from those for men's pitches.

Lacrosse

The N.P.F.A. gives sizes as 90 to 110 yd. long by 75 to 80 yd. wide with a small additional space behind the goals and a maximum acreage of $2\frac{1}{2}$. Another authority gives the distance between goals as 100 to 130 yd. for men and 90 to 110 yd. for women and lays down that boundaries of field of play are agreed before commencement of match.

Bowling Green

The size of the gutter varies between 8 and 12 in. but most authorities agree on 12 in. The English Bowling Association gives the length as 35 to 42 yd. and the rink width as 18 ft. to 21 ft. Crown bowling greens are given by the N.P.F.A. as 40 yd. square with a 10 in. rise at the centre.

Tennis Court

A clearance of 21 ft. at ends and 12 ft. at sides is usually recommended (Davis Cup). The N.P.F.A. gives 18 ft. at ends for hard courts and 16 ft. for grass courts. Recommended orientations vary between N.E.-S.W. and N.-S. for grass courts. The N.P.F.A. gives N.W.-S.E. for hard courts.

Nethall Pitch

Most authorities give the radius of the shooting circle as 20 ft. but this is given as 16 ft. by the N.P.F.A. The clearance around the court varies from 5 to 10 ft.

Cricket Pitch

The N.P.F.A. gives the recommended area of table as 30 to 35 yards square. Some authorities give the size of the field as 450 ft. diameter and practice nets 15 ft. per wicket by 75 to 90 ft. long.

Badminton Court

Covered courts require a height at the centre of 25 ft. The clearance at ends should be 8 to 10 ft. and at sides 3 to 6 ft. It is most important that outside courts be adequately sheltered from the wind.

Skittle Alley

The side wall is about 9 in. high and the step about 2 in. high by 2 in. wide.

Boxing Ring

Most authorities give the standard size of ring as from 14 to 20 ft. square. The Amateur Boxing Association gives 14 to 16 ft. sq., the Queensberry Rules 24 ft. square and the National Sporting Club 14 to 20 ft. square. The clearance around the ring should be 5 ft. minimum.

Squash Court

In doubles courts, sometimes required, the American standard is 45 ft. long by 25 ft. wide, the height of the play lines being increased.

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Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

RIBA

Professor G. Manley

Extracts from a lecture on Micro-CLIMATOLOGY AND THE ARCHITECT, given to members of the RIBA at 66, Portland Place, W.1, on April 12.

Prof. G. Manley: Local mate, as it affects the architect, is largely a problem for the geographer. It means assembling and interpreting the data and taking account of the disposition of surface features, such as relief, soil, slope, aspect and shelter. Quantitative measurement of local differences leads to the study of microclimatology.

I propose to review here the present state of knowledge of those local variations of climate which appear to be of sufficient dimensional importance to affect the disposition of buildings as a whole. For the majority of us it is probable that the climatic manifestations we particularly wish to avoid are too much wind and too much for. Sheltered valley sites intended. fog. Sheltered valley sites inland may appear attractive but they are particularly subject to fog, and in many districts foggy weather is now made much more unpleasant weather is now made much more unpleasant by smoke. Almost all the factors leading to the occurrence of low night minima also favour the formation of stagnant in-land fogs, and the varied incidence of night frost should be borne in mind for many reasons of importance in planning. The point to bear in mind in any given

location is the extent to which the air can stagnate and accumulate. Hence the most frost-free locations are found on small islands, such as Scilly. The slopes of headlands of small superficial area, such as Pendennis Head by Falmouth, are also favoured. favoured.

Lakes and broad rivers, as long as they are not frozen, give rise to higher night minima near their banks. A source of warmth, such as a lake, ensures that on a cold night some slight stirring of the air is maintained. Studies of the minima re-corded at coast resorts show how greatly they are affected by local relief. Further, they are affected by local relief. Further, the coastal zone of amelioration is often very narrow. A certain amount of amuse-ment can be obtained by comparing the night minima derived from the various locations chosen by neighbouring resorts for their meteorological instruments; for example, Scarborough and Bridlington. Architects engaged in residential design on our more picturesque coasts will find on our more picturesque coasts will not such comparisons easy to make and instructive. Further, as the evening flow of cool air down a slope is shallow, it can often be diverted by suitable arrangements of walls. Shelter-belts formed by hedges or trees are not always sufficient unless there is plenty of undergrowth, but they can influence the incidence of low night minima.

THE CHARACTER OF THE SOIL

Relief and the proximity of water-bodies are important, but the incidence of low night minima depends on several other factors. The chief of these is the character of the soil. A coarse well-drained sandy soil containing a good deal of air is a much worse conductor than a damp clay which contains less air. Hence, during a clear radiation night the temperature of the surface of the sand falls much lower, as heat is conducted more slowly from the subsoil; and if the night is quiet the air temperature above the ground is also lower temperature above the ground is also lower than over a soil containing less air. If the soil is wet, i.e., the air within it is largely replaced by water, it is a better conductor than when it is dry. But such a soil is liable to keep the temperature lower during the day owing to evaporation of surface water. Well-drained clay might be better, but has the disadvantager that it tands to but has the disadvantages that it tends to crack and disturb foundations during drought. It has been suggested that the best choice for a site should be a medium loam. In England the average length of the frost-free season, and hence the gardening prosfree season, and hence the gardening prospects, can vary to a remarkable extent with choice of location, but the minimum temperature of the air on a clear night is also markedly affected by the nature of the vegetation cover. In particular, on a calm clear night minima are lowest over long coarse grass. Long coarse grass presents a greater radiating surface to the sky. Radiation also cools the grass stems more quickly than can be offset by conduction from below, and more air is trapped and from below, and more air is trapped and cooled between the blades than if the ground is bare. It follows that bad frostground is bare. It follows that bad frost-hollows are likely to be found where, for example, a valley is surrounded by bare grass slopes, has a negligible gradient with no stream at the bottom, and a floor com-posed of sand or a light sandy loam. Some notes from a recent article by Kraus may be mentioned here. He points out that differences of temperature alone can cause pressure differences up to 0.3 mb between the inside and outside of a

mb. between the inside and outside of a house: but the fluctuation of the wind of house: but the nuctuation of the wind of 12 m.p.h. in a gust causes pressure variations up to 2 mb. It is thus evident that exposure to wind will lead to more effective ventilation of the inside and, presumably, cooling. He reports a German opinion that a small detached house will use up to 40 per cent, more fuel than a house of similar size in a continuous row. house of similar size in a continuous row house of similar size in a continuous row. With regard to conduction loss from the outside walls, it may be added that the rate of loss of heat by a body exposed to a strong wind at a temperature of 30° is six times as great as that in still air at 10°. Can I plead here for the RIBA to use its influence in regard to location of pipes? In a standard small house at Cambridge the temperature within an exposed

bedroom fell to 23° in 1947; the pipes were neatly laid round the outside wall. The factors governing incidents of low minimum temperatures are in large measure those which govern the development and localisation of radiation fog. Hence we find that the so-called sheltered valley is almost the worst place to select for a home.

almost the worst place to select for a home. All our inland valleys are foggy, especially in autumn and early winter.

In the planning of industrial areas likely to produce smoke and other forms of pollution during quiet weather, or at night, careful attention should be paid to the local topography. If possible the emission of noxious smoke should be confined to provide when the air is tribulated as periods when the air is turbulent and con-

periods when the air is turbulent and convection is active.

Around our coasts the minor effects of topography can be easily studied by reference to the trees. Slopes which appear to face the wind are not always excessively windy, neither are the slopes on the leeside free from gusts. Much depends on the slope; and a great deal can be done with the aid of shelter belts or walls. It may be mentioned here that if air is flowwith the aid of shelter belts or walls. It may be mentioned here that if air is flowing across a hill or mountain range the flow appears to be affected up to about three times the height of the obstacle. This figure, I believe, has been used in regard to the design of power station chimnevs. The extent to which the operations of the architect and the builder modify our climate is worthy of remark. A house or wall, once erected, affects the speed of the wind for some distance around it. wall, once erected, affects the speed of the wind for some distance around it, depending on its height and other charac-teristics. Large numbers of buildings in-crease the friction, and a laver of quieter air is to be found for some distance above. The cumulative effect of extensive building in a country such as ours is to raise the average temperature; this is also because the sun moves round at an angle which means that the surfaces of walls absorb by day a good deal of radiation and give it out again to the adjacent air in the evening and at night. Narrow streets and squares are often sufficiently shaded to give lower maxima on hot summer days than in the parks.

BUILDINGS AND TEMPERATURE

It is evident that there is probably an "optimum size" for an enclosed garden surrounded by walls of given height, providing maximum radiation and minimum shade. For centuries English gardeners viding maximum radiation and minimum shade. For centuries English gardeners have been accustomed to providing local climatic amelioration by erecting walled gardens in sheltered places, and preferably on slopes. (Incidentally the wall at the bottom of the slope should be lower, or have holes in it). Now we are approaching the stage when it should be possible to predict the effect on temperature of the establishment of walls, houses or towns in given locations, as well as the effect on air movement. For the time being useful estimates can undoubtedly be made by careful comparison of some of our existing ful comparison of some of our existing

urban records, past and present.

It will be readily recognized that in the siting of buildings and planning of towns a great many variables must be taken into account. The findings of a variety of scientists with different aims must be assembled and an opinion based on the best possible interpretation of all the data must be given. When it is a question of must be given. When it is a question of interpreting whatever scattered data are available with regard to the many factors involved in any particular site, it seems to me that the geographer's attitude is likely to be valuable. It has certainly been found useful in recent town-planning studies, and the functions of the regional universities in this tound useful in recent town-planning studies, and the functions of the regional universities in this respect should not be overlooked. Further work, however, appears to be needed with regard to the optimum size and spacing of buildings in our climate with its irregularity and localised character of extremes.

INFORMATION CENTRE . OUESTIONS AND ANSWERS · CURRENT TECHNIOUE THE INDUSTRY · PRICES · TECHNICAL ARTICLES

INFORMATION SHEETS

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

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2.77 planning: general DEVELOPMENT CHARGES

Town and Country Planning Act, 1947. Paper by J. D. Trustram Eve to Royal Insti-tution of Chartered Surveyors, April 4, 1949. (To be published in the J. Royal Institution of Chartered Surveyors).

A paper of immense interest to all concerned with its subject. Informative, closely argued presentation of the problems now emerging from the 1947 Act as in operation.

This paper can be considered in two halves. The first is of general interest, since it deals with the ideas and objectives that underlie the imposition of the development charge, and speculates on the effect that charge is having on all forms of developalready having on all forms of development. Mr. Trustram Eve is opposed to 100 per cent. development charge and to any system which makes a payable develop-ment charge greater than the compensation receivable for the loss of the corresponding existing rights to development. The second half deals with the principles and methods of valuation for development charge assessment adopted by the Central Land Board. The paper as a whole is an exceedingly

useful exposition of the points of criticism of the Act which have already been voiced by the surveying profession. Here is the by the surveying profession. Here is the core of the case for amendment that the authors of the Act have to answer.

2.78 planning: general MAN'S ENVIRONMENT

The Home of Man. Le Corbusier and F, de Pierrefeu. Translated by C. Entwistle and G. Holt. (Architectural Press, 1948. Entwistle 10s. 6d.)

First English translation from French La Maison des Hommes, published in Paris in 1942, consisting of a 50-page essay by Pierrefeu and about 100 pages of illustrations with captions by Le Corbusier. Most

stimulating statement of desirable architectural and town planning aims.

The two sections of the book both cover the same theme, namely, how to pro-vide the best environment. Pierrefeu deals with the subject under a number of main headings such as Reconstruction for Whom? How Should we Build? and Buildwhom? How Should we Build? and Building to what End? and gives more or less a summary of Le Corbusier's by now well known theories. Building for man should be determined by man's chief activities, work, leisure, and rest, as they follow each other during the day. This conception leads to a discussion on the opening up of dwellings to the current which in writerage agency. means to build in height, and thus to live flats, the construction and equipment of which should benefit from the most up-to-date achievements of a highly mechanized building industry. The architect should concern himself with correct orientation and concern himself with correct orientation and layout, should reject absurdly shaped sites and insist on sufficient open space around his buildings. Notes on the replanning of towns deal with the traffic problem, which may be solved by providing different levels for pedestrian and vehicular traffic. Tall buildings on columns would free 98 per cent. of the ground, which should be reserved entirely for the use of pedestrians, with motor traffic circulating on a network with motor traffic circulating on a network with motor traffic circulating on a network of motorway bridges five metres overhead. The contraction of residential areas through building vertically should enable the bulk of industrial and administrative areas to be beauted inside a standard and administrative areas to be located inside a town's periphery. Their layout and design should follow the same principle as that adopted for dwellings in regard to orientation and open space provision. In that way there would be no need for satellite towns.

Other aspects in Pierrefeu's essay deal with the tasks of the contemporary architect and his field of activities, with the building industry and other specialists involved in the proposed remodelling of towns, and lastly with the required ad-ministrative set-up.

The second part of the book tells the story of man's home in pictures only, drawn and captioned by Le Corbusier. It is an exciting and dramatic story made impressive and convincing through its intense visual appeal, which renders an attempt to abstract it in words almost impossible. The train of thoughts is briefly this:—The idea of the garden city and satellite town represents false though seductive solutions. Fundamental human needs, aspects of work and the use of the land must all be recon-sidered. Such rethinking leads to three new sidered. Such rethinking leads to three new prototype systems adequate to man's needs, namely, the verdant city, the linear industrial city, and the revitalized rural settlement. The next step is a consideration of the country as a whole, followed by a definition of man's essential joys:—Sun, space and verdure. Their enjoyment make the bringing together of man and nature a vital aim which can be achieved if technological developments are amplied to the nological developments are applied to the dwelling, that is, the dwelling on stilts freed from the ground. Architectural design should be based on mathematical propor-tion, correct orientation and topography. Men of the highest quality should model the towns, create order in the countryside and determine and distribute the built volumes on the ground according to the site and resources of the land.

7.19 practice DRAUGHTSMANSHIP

Architectural Drawing. C. D. Gordon Hake and Eustace H. Button. (B. T. Ltd. 2nd edition, 1949, 12s. 6d.)

Geometrical drawing, lettering, isometric. axonometric and oblique projections, perspective and sketching. 96 pp. 100 diagrams. 23 plates.

The basic essentials of architectural drawing condensed in one small volume. Clearly explained diagrams and good selection of examples illustrating various sketching techniques. Should be very helpful to architectural students.

8.15 surveying and specification PRICES

Price Build-up Today. Cain (V. C. Abell). (The Builder, March, 1949. 7s. 6d.)

Deals with the "build up" or analysis of builders prices; the data has been revised to conform with wage increases including the regrading in February, 1947.

The first part of the book is devoted to labour costs. More than fifty labour constants are given and the true cost per hour of labour is demonstrated taking into consideration holidays with pay, insurances, etc. This is followed by useful conversion tables giving the cost of anything from .01 hours to 1.00 hours at rates ranging from 1s. 11d. to 3s. per hour.

A small section introducing the reader to the method of analysing the cost of materials follows and after this comes the main part of the book, comprising about 40 pages, in which are given carefully analysed prices for building work ranging from excavation to painting and decorating.

As both the quantities and prices of

materials are given in detail the effect of fluctuations in prices can readily be calculated. The same applies to labour costs, but as separate prices are given according to whether the work is carried out in the Outer London area or in Grade A, Al and A2 districts, the reader can see at a glance the effect of minor fluctuations in wage

The book serves the two-fold purpose of giving up-to-date price analysis and as a basis for calculating incentive payments. It should be extremely useful to builders, surveyors and all others interested in building

10.47 design: building types SELF-SERVICE SHOPS

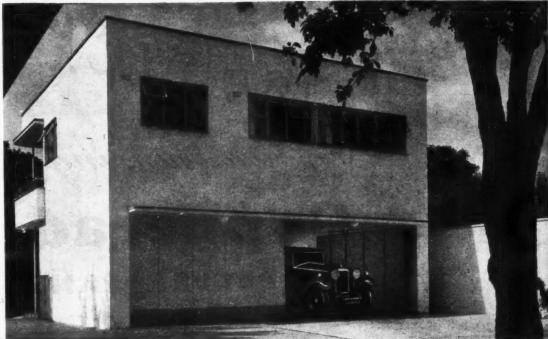
Conversion to Self-Service: A Practical Guide. J. Jacques and H. G. Wilding. (Hants and Sussex Co-operative District Council, 160, Above Bar, Southampton. 1949. 2s. 6d.)

Illustrated booklet describing advantages and principles of self-service in food shops based on experiments and experience gained from conversion of 12 shops in Portsmouth district. Layout. Pittings. Organization. Useful compilation of informative data.

Self-service shops have been operating successfully for a long time on the Continent and in America. In connection with a recent announcement in the House of Commons drawing attention to the subject and making available a number of licences for the conversion of shops to self-service the publication of this booklet is particu-

larly useful.

The main principles of layout to be observed in the conversion of existing



"Miramont," Kingston, Surrey.

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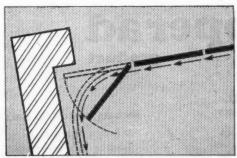
Architect: E. Maxwell Fry, F.R.I.B.A.

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premises are described and illustrated by a premises are described and illustrated by a variety of plans, with overall dimensions and photographs. Fully dimensioned details of counters, centre floor and wall fittings are provided, together with a description of shopping baskets and trolleys for the use of customers. There are notes on floor space requirements, on the classification of goods and their most advantageous arrangement on the shelves on staffing and arrangement on the shelves, on staffing and other management problems, and on average turnovers from sales. A special section describes self-service layout for mobile

10.48 design: building types GARAGES FOR PARKING

The Traffic Design of Parking Garages. E. R. Ricker. (Eno Foundation for Highway Traffic Control, Saugatuck, Conn., USA. 1948. Gratis.)

Detailed and informative study of traffic aspects in garages. Design and operation. Fully illustrated.

This is a most comprehensive book on traffic considerations inside parking garages evaluating design features from the point of view of the traffic engineer in America. The investigations are mainly based on actual observation and time-motion studies made in existing garages covering such aspects as driving on ramps, backing in and driving out, walking distances and the issue of tickets. Seasonal, daily and hourly variations in parking demand are closely examined and illustrated by a number of interesting charts. There is a great deal of useful and factual information on the design of main and storage floors, access and exits, floor space requirements, car dimensions and turning movements. A special chapter deals fully with the design of ramp systems.

15.51 materials : applied finishes and treatments FLOORING

Tile and Slab Flooring, Draft BSC. of P. 202:1949 and Sub-Codes 202.101 and 202.102. (British Standards Institution, 1949.

Materials and methods of laying for clay, concrete, brick and stone internal and external floor fin shes. Sub-Code 202.103 on composition block flooring not included.

This code and its sub-codes contains much that is obvious, a good deal of repetitive materials and a little very useful guidance. Among the less well known practices is the suggestion for laying these floor finishes on an isolating layer of felt or sand. There are a few unfortunate omissions or ambiguities, of which the most serious is the failure to give any definite guidance on when to use or omit a screed. It would also have been helpful to have had some recommendations on how to polish these floors finishes, for although this may give a rather slippery surface it is a treatment sometimes called for but difficult to find information

19.66 construction: details CONCRETE

Construction Practices for Architectural Concrete, E. B. Oberly. (J. of the American Concrete Institute, March, 1949, pp.

Form details, mix requirements, placing, curing and finishing of architectural con-

19.67 construction: details CONCRETE

Design Details for Architectural Concrete. J. J. Hogan. (J. of the American Concrete Institute, March, 1949, pp. 529-540.)

Fundamental requirements for the design of structures with exposed concrete surface.

The success of arch tectural concrete de-pends on studied design and skilful crafts-manship. This article deals with design details regarding texture, ornament, construction joints, control joints and reinforce-

19.68 construction: details.

PRE-STRESSED CONCRETE EXHIBI-

Pre-stressed Concrete. MOW Travelling Exhibition. (The Builder, March 25, 1949, pp. 374-5.)

Description of main features of exhibition held in March at the Institution of Civil Engineers, now touring the provincial

20.124 construction: complete structures SHELL CONCRETE ROOF

Factory at Iver. Designed by Adie, Button & Partners. (The Architects' Journal, March 24, 1949, pp. 275-7, and other journals.)

Factory for the Concrete Development Co. Ltd. to produce fully bonded pre-stressed concrete units on the "long-line" system.

The main factory building is 330 ft. long, 56 ft. 3 in. wide, made up of eleven 30-ft. bays. The cylindrical barrels of 25 ft. radius span across the building. No roof lights are provided, but windows run the full length of the factory on both sides. External walls up to window cill level consist of 18 in hy 2 in hy 6 in contrate blocks. 18-in. by 9-in. by 6-in. concrete blocks.

20.125 construction: complete structures SHELL CONCRETE ROOFS

Buildings With Thin-Slab Vault Roofs at Belfast. (Concrete & Constructional Engineering, March, 1949, pp. 85-88.)

New buildings at the tobacco factory of Messrs. Gallaher, Ltd., at Connswater, Belfast, include a bond store 420 ft. long and 80 ft. wide, a leaf sample room 160 ft. long and 90 ft. wide, and a canteen 90 ft. long and 60 ft. wide.

The superstructures are reinforced concrete frames with 6-in. thick reinforced concrete panel walls.

All the roofs are in shell construction with a radius of 35 ft., so that it was possible to use the same shuttering about fifteen times. The roof lights are pre-cast panels, each comprising four 9-in. square glass lenses set into recesses of the concrete shell.

Heat and sound insulation in the canteen is provided by asbestos-fibre sprayed on the soffits of the roof and the inner face of the walls and finished with distemper. This treatment has produced a surface the sound-absorbing properties of which are claimed to be remarkable.

24.111 lighting COLOUR AND LIGHT IN FACTORIES

Colour and Lighting in Factories and on Machines. Report of a course held at the RIBA. (Pub. by the Council of Industrial Design, Feb., 1949.)

Psychological factors in industry, theory of colour and development of colour treatments, relevant properties of paint, principles and practice of factory lighting. Good material, important reading.

This is the report of a three-day course organized by the Council of Industrial Design with the support of the British Colour

Council and of the Paint and Building Research Stations. It is the best collection of material available on colour in factories, and there is a thoroughly good and advanced discussion of lighting.

The lectures on colour were given by W. O. Wright, W. A. Allen, D. L. Medd, H. O. Murray, R. F. Wilson, and H. Grim-

Wright's discussion of colour theory is one of the most lucid in recent years, and there is a particularly useful section on systems such as the Munsell and Ostwald. He was the only speaker on theory. The remainder dealt essentially with principles and prac-tice, to which a most important new twist was given. Instead of the idea of colour used essentially as decoration to cheer the place up, there were specific criteria govern-ing the choice and use of colours according to requirements of work. A factual basis is thus being built up around the æsthetic use of colour.

The paint used on machines has to stand up to difficult conditions, and in another remarkably lucid paper P. J. Gray described the chief characteristics of the main types of paint and remarked particularly the suitability of so-called synthetic paints for

suitability of so-called synthetic paints for machine work.

Finally, of the main themes, there was lighting, on which R. G. Hopkinson and E. B. Sawyer spoke. Hopkinson is from BRS and dealt with brightness, contrast and glare in a way which made very clear the interest of maderal lighting research and dealth of the main themes, there was lighting to the main themes and themes and the main themes are the main themes and the main themes are the main them impact of modern lighting research on de-

A short discussion by T. M. Ling of environmental factors in industrial absenteeism completes the papers.

Interested architects should apply to CID for copies.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.I.

QUESTIONS AND ANSWERS

2987 UNIVERSAL DECIMAL CLASSIFICATION

I have noticed 693.6 (UDC) on a technical data sheet. This appears to be some kind of classification symbol. Can you tell me if this is the case and, if so, what scheme it refers to?

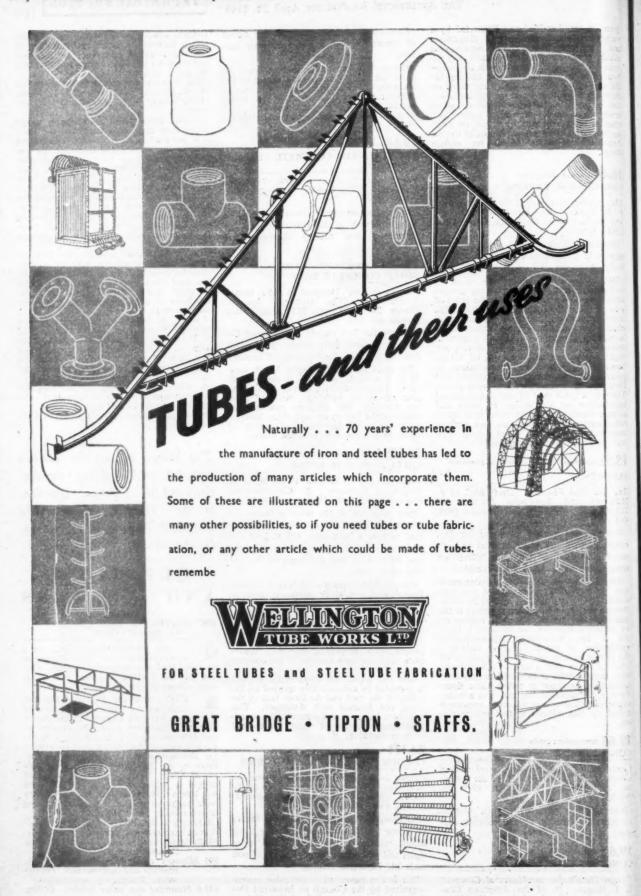
UDC stands for Universal Decimal Classification. An abridged edition of this system has been prepared by the British Standards Institution under the auspices of the International Commission on Decimal Classification of the International Federation Classification of the International Federation for Documentation, and with the concurrence of the Education Foundation, Lake Placid Club, New York. This abridged edition is published as a British Standard No. 1000A: 1948, price 25s. It covers a very wide range of subjects of which building information is one. information is one.

Referring to the abridged edition, the classi-

fication you mention represents:—
69 Building Industry and Trades. Building
Construction.

693 Masonry construction in stone, brick, concrete and agglomerates. Plaster-work. Tiling, 693.6 Plastering and other finishes. Ceiling

construction.



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B.1.

This feature covers both the production and marketing of new materials and designs of equipas well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

B.I.F. AGAIN

These notes will appear just before the opening of the British Industries Fair, and any comment must therefore wait for another fortnight. Of the various sections, Castle Bromwich is the most important, as it contans the building and hardware sections, as well as the electricity and engineering, which both contain a certain amount of interest to architects. For the rest of the show, furniture, textiles, plastics, pottery and glass are at Earls Court, and unless you want to see the radio sets there is hardly any need to go to Olympia at all.

Remember, however, that the BIF is intended for buyers, and the general public cannot get in except at specified times. cannot get in except at specified times. This year the system has been revised slightly. At Castle Bromwich the public will be admitted (2s. 6d.) from 2 till 6 on May 2 to 6 and 9 to 12, all day on May 7, and from 2 till 4 on the last day of the Fair (13). Olympia and Earls Court will be open (1s. 6d.) all day on May 4, 7 and 11.

SAVING ROOF COSTS

The Marley Tile Co. have just issued a leaflet setting out the savings to be made by the use of their Ludlow Interlocking tiles,

the use of their Ludlow Interlocking tiles, which seem to work out at something like £10 per house of 900 ft. super, built in pairs. The Code of Practice for roof tiling gives a minimum pitch of 40° for plain tiling. This, of course, is the pitch of the roof timbers and is set high because the effective pitch of the roof tiles is about 9° lower by reason of the camber in the length of the tile and the fact that the tail of one tile lies on two tiles fact that the tail of one tile lies on two tiles below, whereas the heads of all tiles are in the same plane. The code allows interlocking tiles to be leid at 35° because their effective pitch is a little less than 5° below the pitch of the roof timbers. This is because their effective pitch is a little less than 5° below the pitch of the roof timbers. This is because they have no lengthwise camber and the tail of one tile lies upon only one tile below. The true pitch of both roofing materials is almost identical.

Interlocking tiles are laid on $1\frac{1}{2}$ in. \times $\frac{1}{4}$ in. battens at 12 in. gauge, whereas plain tiles require 1 in. \times $\frac{1}{4}$ in. battens at 4 in. gauge. There are thus three factors which will

reduce the price of the roof:—
The reduction in roof area by reason of the

timber, because of the shorter rafterssaving both in money and in timber

The reduction in the amount of timber required for battens.

lower pitch;
The small reduction in the amount of roof

In addition to these, the greater size of the interlocking tiles, coupled with the reduced weight per square, will reduce the cost of: Tiling labour, by reason of the reduction in the number of man-hours per square; trans-

port; unloading; and manufacture.
For a variety of reasons architects may wish to vary the appearance of roofs on large housing estates. Ludlow tiles are available in a wide range of colours and this can help quite considerably. quite considerably.

The figures given below are based upon the

following assumptions:

A pair of houses of approximately 900 sq. ft. of floor area per house is to be roofed. The timbers for the plain tiles are pitched at 40° and for the Ludlow interlocking tiles at 35°.

at 35°.

Prices include the supplying and fixing untearable felt because of the improved thermal insulation values and because of the efficacy of the felt as a wind-break.

All battens have been priced at £90 per standard of 165 cubic feet.

Untearable felt is priced at 28s per roll of

Untearable felt is priced at 28s. per roll of

24 square yards.

The roof is assumed to be a normal 4-hipped roof of simple pattern constructed of timber in accordance with modern practice. It is assumed that the site is within a radius of 30 miles from the nearest works.

| | | Plain Tiles. | | | Ludlow Interlocking Tiles. | | |
|--|-----|-----------------|-----|-------|----------------------------------|-----|--|
| Cost of tiles and tiling, includ- ing fixing only battens and supplying and fixing un- | | 8. | đ. | £ | s. | d. | |
| tearable felt | | 15 | 1 | 70 | 19 | 7 | |
| Cost of battens (see above) | | 9 | 3 | 6 | | Ó | |
| | £99 | 4 | . 4 | £77 | 14 | 7 | |
| Saving by the use of Ludl interlocking tiles | £2 | | | per p | | | |
| Timber used | | | | | | | |
| In roof timber In battens | 1 | 29 · 26 · | 36 | 1: | 11. f | 18 | |
| | 1 | 55. | 24 | 1 | 99.1 | 5.0 | |

It must not, however, be assumed that such a saving can be made on any and every type of house. Interlocking tiles are designed for simple roofs and have not the flexibility of plain tiles. They can be used on compli-

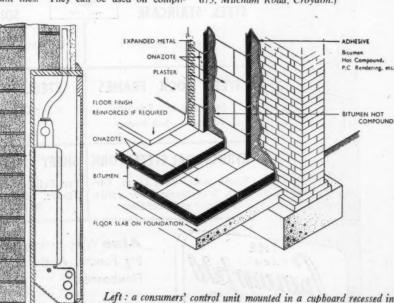
cated roofs but the saving in cost will be less cated roofs but the saving in cost will be less. When there are no dormers in the roofs and it is considered desirable to preserve the homogeneity of an estate, specially designed valley tiles are available for use with interlocking tiles. These eliminate any necessity for valley boards or lead, excepting for use as a saddle. (The Marley Tile Co. Ltd., London Road, Riverhead, Sevenoaks, Kent.)

ELECTRICAL SERVICES

The various fuseboards, main switches, junction boxes and meters used for domestic electricity supply have generally produced something of a mess in kitchen, larder, or in that rather dark space under the stairs. BS 1454 of 1948 has produced a number of quite tidy designs which can be unobtrusive, and involve no exposed wiring even for meter connections. The latest leaflet on these units comes from Henleys, the cable people, and shows the separate units such as main switches, fuse boxes and supply intake chambers. The various units can be arranged in the pattern most convenient to suit the available space, and the section reproduced here shows how the units can be mounted in a cupboard recessed in the wall. Here the normal run of conduit goes straight into the cupboard and into the connecting chamber at the top without any bending. (W. T. Henley's Telegraph Works Co. Ltd., 51/53, Hatton Garden, London, E.C.1.)

THERMAL INSULATION

The Expanded Rubber Co. has just issued a pamphlet dealing with thermal insulation with particular reference to the use of Onazote (expanded ebonite). Extremely Onazote (expanded ebonite). Extremely light, 4 lb. per cubic foot, and with a thermal conductivity of 0.2, it is highly resistant to moisture and proof against vermin and bacteria. Owing to its light weight it is being widely used for insulating vehicles of all kinds, from tank wagons to ice cream barrows, but it is equally suitable for cold stores, particularly as its moisture resistance does away with the problem of forst heave in does away with the problem of frost heave in the floor. The sketches show a typical appli-cation. (The Expanded Rubber Co. Ltd., cation. 675, Mitcham Road, Croydon.)



Left: a consumers' control unit mounted in a cupboard recessed in the wall, utilizing the conduit connection chamber to receive conduits in their normal run without bending. See note on electrical services. Above: an isometric section of a cold store, showing the use of expanded ebonite as an insulation. See note on thermal

Announcements

and Elizabeth Fastwick-Field A./A.R.I.B.A., would be pleased to receive trade literature and catalogues at 24, The Little Boltons, London, S.W.10 (tel.: Fro

0203).

American hardwood plywood prices have been reduced by about one-third under an Order made by the BOT. Copies of the Order made by the BOT. Copies of the Order (S.I. 1949, No. 498) are available, price 6d., from H.M. Stationery Office. Messrs, Wilson, Hamilton & Wilson, chartered architects, require all trade

chartered architects, require all trade catalogues for their Glasgow office at 21,

catalogues for the Hope Street, C.2.

Hope Street, C.2.

The Board of Trade Control of Timber (No. 51) Order, 1949, and the Imported Hardwood Prices Orders came into force on April 1. These orders implement the changes announced by came into force on April 1. These orders implement the changes announced by Mr. Wilson in the House of Commons on March 22. The first removes the control of acquisition and consumption of nearly all kinds of imported hardwood and sawn nome-grown hardwood. Nine kinds (Ash. Basswood, Canadian and American Birch, American Cypress, Hickory, Honduras Mahogany, Rock Maple, American Poplar, and Teak Decks), which are still scarce, or which come from dollar sources, will continue to be licensed as at present. There will, however, be administrative relaxations in the licensing of these kinds, wherever possible. Softwood (including softwood mining timber), all homegrown logs, plywood and veneer will continue to be licensed as at present. The Imported Hardwood Prices Order, 1949, provides maximum prices for imported hardwood, and supersedes the current orders. The level of prices is unchanged. The making of the extra charge for small quantities, which previously was permitted only if the buyer extra charge for small quantities, which previously was permitted only if the buyer had a suitably claused consumption licence, now depends solely on the nature of his

order. Present arrangements for the import of hardwood are not affected by these

Buildings Illustrated

Factory at Gillingham (page 388). Archiect: Joseph Emberton, F.R.I.B.A. Consul-Factory at Gillingnam (page 388). Arcnitect: Joseph Emberton, F.R.I.B.A. Consultants: Quantity Surveyor, Widnell & Trollope. Heating and Ventilation, L. Rayner, Lighting, A. O. Gibbons. General Contractor: London Ferro-Concrete. Sub-contractors: asphalt, William Briggs & Sons Ltd.; concrete blocks, Atlas Stone Co. Ltd.; bricks, Stone Got special Contractors. crete blocks, Atlas Stone Co. Ltd.; bricks, Suodland Lillica Brick & Stove Co.; special roofings, Boddy Roofing Co. Ltd.; glass, Pilkington, Ltd.; patent glazing, Williams & Williams, Ltd., and Mellows & Co. Ltd.; patent flooring, Malcolm MacLeod & Co. Ltd.; waterproofing materials, Bodec, Ltd.; central heating, Walter Cowen, Ltd.; electric wiring, Easiwork, Ltd.; electric light fixtures, Benjamin Electric Ltd.; plumbing, A. Grant & Sons; sanitary fittings, John Bolding & Sons, Ltd.; door furniture, Taylor Peaese & Co.; casements and window furniture, Crittalls Ltd.; rolling shutters, Mather & Platt, Ltd.; wood refuse collection, Air Plants, Ltd., and Rex Steamless Cisterns; sprinklers, Atlas Sprinkler Co.; signs, Lettering Centre. sprinklers, Atlas Lettering Centre.

Flats at Hornsey (page 383). Architect: T. P. Bennett & Son. General Contractor: Globe Contractors, Ltd. Sub-Architect: contractors: asphalt, Highways Con-struction; structural steel, Banister ton; woodblock flooring, Hollis Bros.; pitchmastic flooring, Ragusa; electric wir-ing, Tanjon (Newcastle), Ltd.; plumbing, Structural Services, Ltd.; sanitary fittings, Boldings; door furniture, Nettlefold; lifts, Hammond and Champness.

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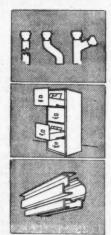
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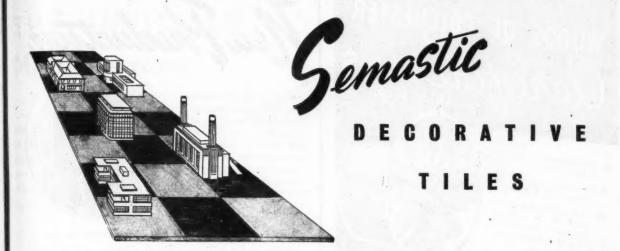
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Semtex Ltd., 185, 187, 189 Finchley Road, London, N.W.3

The Alba Flooring Co. Ltd., West Arthurlie Works, Lochlibo Road, Barrhead, Glasgow

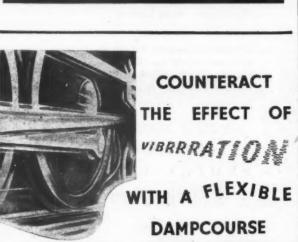
The Limmer & Trinidad Lake Asphalt Co. Ltd., Steel House, Tothill Street, Westminster, S.W.1

The Penmaenmawr & Trinidad Lake Asphalt Co. Ltd., National Bank Building, Fenwick Street, Liverpool, 3

The Western Trinidad Lake Asphalt Co. Ltd., Asphalt House, St. Mary Street, Cardiff

----/D





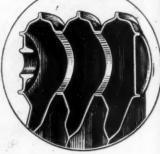
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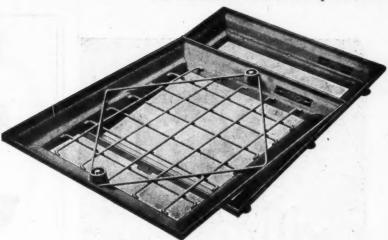
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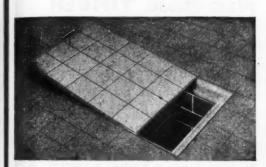
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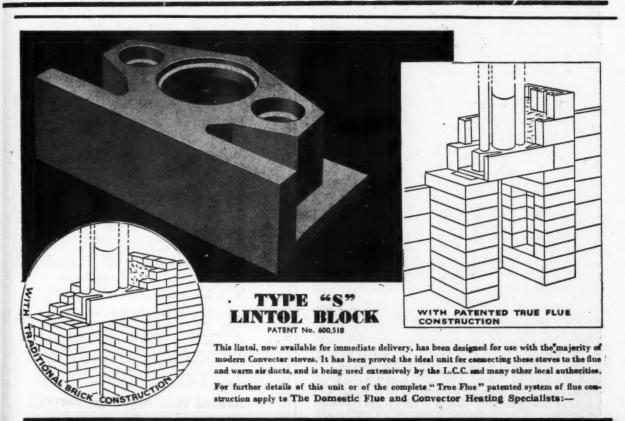
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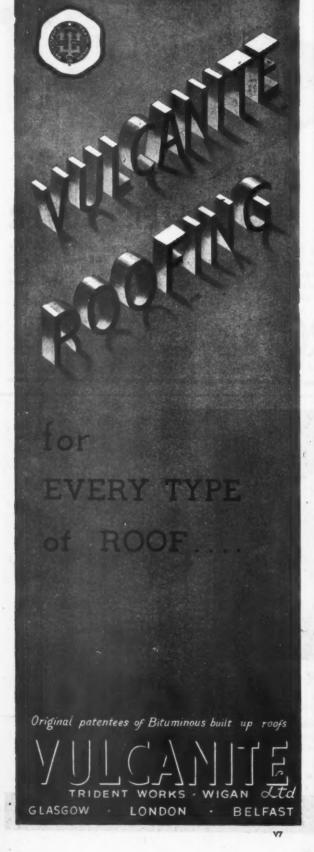
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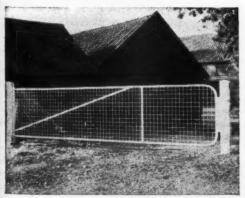
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Illustrated above is a tubular steel gate giving a clear opening of 14 ft. These gates are immediately available, free of licence.

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TIMBER CONNECTORS ARE SIMPLE TO USE

While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.

2 The members are lifted apart and the toothed connectors are placed between the adjacent faces of the members to be connected.

3 The members are then drawn together by means of the bolt until the projecting teeth of the metal plates are completely embedded in each contacting timber surface.

The 'Bulldog' timber connector consists of a metal plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of

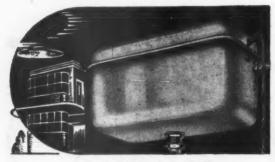
In use, these connectors are embedded firmly between the lapped members, thus greatly increasing the small bearing area provided by a bolt alone, and enabling the stresses to be distributed over practically the entire cross section of the Timbers involved.

'Bulldog' connectors put timber construction on a sound engineering basis and the consequent increase in efficiency results in an amazing saving of timber, time and

Full details and technical advice are available to everyone interested.



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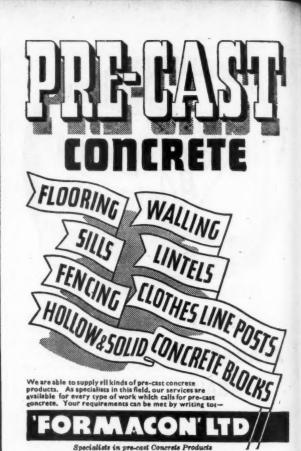


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the modern SCHOOL

by C. G. STILLMAN, F.R.I.B.A. and B. CASTLE CLEARY, A.R.I.B.A.

This book gives a comprehensive account of the architectural and building problems which face educationalists today. The Butler Education Act of 1944 has been revolutionary in its new approach to education, and its scope and implications are not yet fully appreciated in many responsible quarters. The Modern School surveys the whole field beginning with the historical background and ending with a chapter on modern constructional design; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail, so that questions of siting, classroom accommodation, specialist rooms (e.g. laboratories and music rooms), school kitchens, gymnasia and playing fields are each covered in turn. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects.

The book contains 152 pages including about 120 photographs and plans. Its size is 9\frac{1}{2} in. by 7\frac{1}{2} in., and it is bound in cloth.

Twenty-one shillings, postage ninepence.

THE ARCHITECTURAL PRESS

9-13 Queen Anne's Gate, S.W.1.

FACTORY FOR EASIWORK LIMITED, at Crowe Park, Gillingham, Kent.

Architect: Joseph Emberton, Esq., F.R.I.B.A.



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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advi. Manager, "The Architects' Journal," 9, 11 and 22, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's

aper. Replies to Box Numbers should be addressed are of "The Architects' Journal," at the address given above.

Available only to applicants excepted from the Control of Engagement Order, 1947.

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The Incorporated Association of Architects and Surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff reacancies. Address: Employment Resulters, Wear Pare, Weverlang. Tel.: Uplands 035. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECTURAL Assistants are invited for unestablished positions of (i) ARCHITECT. Grade III (aslaries up to £700 a year) and (ii) ARCHITECTURAL Assistants (as a laries up to £500 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized prefessional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.I. (atamped addressed envelope required, and queste Ref. G.B.3). Canvassing diagnatifies. (2269) 1046

CITY OF STOKE-ON-TERNIT.

CITY OF STOKE-ON-TRHNT.

CITY OF STOKE-ON-TRHNT.

CITY ARCHITECT'S DEPARTMENT.

CHTY ARCHITECT'S DEPARTMENT.

(a) ASSISTANT ARCHITECT'S. Salary A.P.T.

Div., Grade VI. £595-£560.

(b) ASSISTANT ARCHITECT'S. Salary A.P.T.

Div., Grade VI. £590-£570.

(c) ASSISTANT ARCHITECT'S. Salary A.P.T.

Div., Grade III. £460-£495.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the usual conditions applicable to Local Government Service.

Previous experience of Local Government work is not essential.

Applications, giving date of birth, particulars of training and experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.IB.A., City Architect, City Architect's Department, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Saturday, 14th May, 1949.

HARRY TAYLOR, Town Cierk.

HARRY TAYLOR, Town Clerk.

11th April, 1949.

Town Hall. Stoke-on-Trent.

11th April, 1949.

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

SENIOR TOWN PLANNING ASSISTANT.
Applications are invited for the appointment of a Benior Town Planning Assistant, Grade V (£30-£570). Applicants should be AM.T.P.I. The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.
Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Senior Town Planning Assistant," stating age, qualifications, present and previous appointments and experience, should be sent, together with copies of two testimonials, to the undersigned not later than Saturday, the 7th May. 1949.

The Council will give favourable consideration to the provision of housing accommedation.

SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of a Senior Architectural Assistant, at a salary in accordance with Grade A.P.T. VI (£59-£660). The commencing salary will be fixed in the light of the successful applicant's qualifications.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Senior Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, together with copies of two testimonials, should be sent to me not later than Saturday, the 7th May, 1949.

The Council will give favourable consideration to the provision of housing accommedation.

W. S. DES FORGES.

Town Hall, Wakefield.

Town Hall. Wakefield. 12th April, 1949.

VACANCIES FOR QUANTITY SURVEYORS
AND ASSISTANTS IN ARCHITECT'S DEPARTMENT.
SURVEYOR. Grade II, £700 × 235-2840 a year.
SURVEYOR. Grade III, £550 × £25-2700 a

TEMPORARY TECHNICAL ASSISTANT (a). TEMPORARY TECHNICAL ASSISTANT (b).

TEMPORARY TECHNICAL ASSISTANT (b).

Up to 167s, 6d. a week.
Commencing rates for Grade III and Technical
Assistants according to qualifications and experi-

Assistants according to qualifications and experience.

Candidates for Grade II and Grade III should be Associates of the Royal Institution of Chartered Surveyors, and experienced in abstracting and billing, estimating, interim valuations for payment on account, measuring, adjusting and agreeing final accounts, "taking off," and the preparation of Bills of Quantities. Applicants for positions as Temporary Technical Assistants should be up to Intermediate R.I.C.S. standard, and should have had previous experience in a quantity surveyor's office.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund. There are opportunities for Temporary Assistants to compete on merit for permanent appointment.

Application forms from the Architect (AR/P/Q). County Hall, Westminster, S.E.I., enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (389)

BOROUGH QF CHESTERFIELD.

BOROUGH OF CHESTERFIELD.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following appointments on the permanent staff:—
(a) JUNIOR ARCHITECTURAL ASSISTANT.
A.P.T. Division, Grade II (2420-2465).
(b) DRAUGHTSMAN. Miscellaneous Division.
Grade II (2375-2420).
Applicants for appointment (a) must have had good experience in general Architectural work, and preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A.

and preference will be given to candidates was have passed the Intermediate examination of the R.I.B.A.
Applicants for appointment (b) must be expert draughtsmen and must have had previous expertence in the preparation of drawings for Architectural work.
Both appointments will be subject to the provisions of the Local Government Superannuation Act, 1337, and to the successful applicants passing a medical examination. The appointments will be terminable by one month's notice on either side.

canvasing will disqualify. Candidates must disclose whether they are related to any member of the Council or to any senior officer of the

of the Council or to any senior omeer of the Council.

Applications, endorsed "Junior Architectural Assistant" or "Draughteman," stating age, qualifications and experience, present and past appointments, and accompanied by copies of three testimonials, should be received by the undersigned not later than 7th May, 1949.

RICHARD CLEGG,

RICHARD CLEGG, Town Clerk

Town Hall, Chesterfield. April, 1949.

CORPORATION OF LONDON.
CITY ENGINEER'S OFFICE.
Applications are invited for the following appointments in the office of the City Engineer:—
ARCHITECTURAL ASSISTANT, Grade I (Permanent Staff).
Salary £400 to £625, by annual increments of

ARCHITECTURAL ASSISTANT, Grade III (Auxiliary Staff).
Salary £600 to £750, by annual increments of

£25.
Commencing salary within the above grades will be considered in relation to qualifications and

be considered in relation to qualifications and experience.

Applicants must be Chartered Architects, who have passed the Final examination of the B.I.B.A. or who hold an appropriate Degree of a British University, and who have had experience in designs, construction and maintenance of Public Buildings and Housing.

The appointments are subject to the Standing Orders of the Corporation, and the selected candidates will be required to pass a medical examination and contribute to the Corporation's Superannation Scheme.

Forms of application and conditions of service are to be obtained from the City Engineer, Corporation of London, 55/61. Moorgate, London, E.C.2.

Applications, together with copies of two recent testimonials, are to be forwarded to the Town Clerk, Corporation of London, 55/61, Moorgate, E.C.2, by the 16th May, 1949.

CITY OF BATH.

CITY OF BATH.

CITY PLANNING DEPARTMENT.

Applications are invited for the appointment of a SENIOR PLANNING ASSISTANT, Grade V (£590-£570), or Grade VI (£595-£560), according to qualifications and experience. Preference will be given to candidates who possess a recognized Town Planning qualification. The appointment is subject to the provisions of the Local Government Superannuation Act, 1397, and to the successful candidate passing a medical examination. Applications, stating age, qualifications and experience, together with the names of three referees, should be forwarded to the City Planning Officer, 2. Princes Buildings, Bath, not later than 30th April, 1949.

BUCKS COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the following
appointments on the permanent staff :(a) SENIOR ASSISTANT QUANTITY SUBVEYOR, Grade VIII. Salary £685-£760 per

(a) SENICE ASSISTANT QUANTITY SUPERIOR. Candidates should be members of the Royal Institute of Chartered Surveyors (Quantities Section) with pre-war experience, and must show evidence of special ability and experience as Taker-off for all types of building works undestaken by a Local Authority, also fully capable of dealing with the settlement of final account.

(b) ASSISTANT QUANTITY SURVEYOR, Grade VII. Salary £635-£710 per annum. Candidates should be members of the Royal Institute of Chartered Surveyors (Quantities Section) and must be capable of undertaking all stages of the work in the preparation of specifications, bills of quantities and the settlement of final accounts for all types of minor building works undertaken by a Local Authority.

(c) ASSISTANT QUANTITY SURVEYOR. Grade IV. Salary £480-£255 per annum. Preference will be given to candidates who have passed the Intermediate B.I.C.S. examination and must be experienced Workers-up.

(d) ASSISTANT ARCHITECTS: One Grade VII. salary £685-£710 per annum. Candidates should be members of the R.I.B.A. and preference will be given to Graduates in Architecture or persons poasessing some pre-war experience. The appointments will be subject to the pre-

Architecture or persons possessing some pre-war experience.

The appointments will be subject to the previsions of the Local Government Superanuation Act, 1937, to a satisfactory medical examination, and to termination by one month's notice in writing on either side.

Applications for the above appointments must be made on the prescribed forms, obtainable from the County Architect, County Offices, Walken Street, Aylesbury, to whom completed application forms should be returned not later than 9th May, 1949.

GUY R. CROUCH.

GUY R. CROUCH, Clerk of the County Council. County Hall, Aylesbury. April, 1949.

County Hall, Aylesbury.

April, 1949.

SURRY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

SUPERINTENDENT CLERK OF WORKS, Grade VIII. Salary 2685, rising by annual increments of £25 to a maximum of £760 per annum, plus London allowance of £30 per annum.

The successful applicant will be responsible for the control and organization of all Clerks of Works ongaged on the supervision of major contracts.

Applicants must have had full experience in the building trade and possess a sound knowledge of all materials.

Full details should be given of present and previous appointments, including the duties of the appointment, and the salary attaching thereto.

ASSISTANT ARCHITECT, Grade VIII. Salary £685 to £760 per annum, plus London allowance of £30 per annum.

Applicants must hold either a degree in Architecture; or be Members of the Royal Institute of British Architects, and have had a good training and an adequate experience in the design and construction of modern buildings.

Applicants should give full details of present and previous appointments and the salary attaching thereto.

Applicants must be Associate Members of the Royal Institute of British Architects.

The appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Hall. Kingston-upon-Thames, not later than the 7th May, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

BUDLEY AUKLAND, Clerk of the Council. County Hall. Kingston-upon-Thames.

ments in this direction.

DUDLEY AUKLAND,
Clerk of the Council

County Hall, Kingston-upon-Thames.

DARLINGTON TECHNICAL COLLEGE.
Principal: C. E. BEYNON, B.Sc., F.B.I.C.
A. Inst.P.

Applications are invited for the post of HEAD
OF THE BUILDING DEPARTMENT. Candidates should possess suitable professional qualifications in Architecture. Building, Civil of Structural Engineering, and have had good industrial experience. Duties commence 1st September, 1949.

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BRECONSHIRE COUNTY COUNCIL.

Applications are invited for the permanent appointment of CHIEF ASSISTANT in the Planning Department.

Candidates should have passed or obtained exemption from the Final examination of the Town Planning Institute, and should have experience of development control and the preparation of planning schemes. Preference will be given to applicants who hold a qualification in Architecture.

The salary payable will be in accordance with

applicants who hold a qualification in Architecture.

The salary payable will be in accordance with A.P. and T., Grade V., of the National Joint Council's scale, viz., £520 per annum, rising by annual increments to £570 per annum.

The appointment will be subject to: (i) the National Scheme of Conditions of Service; (ii) the provisions of the Local Government Superannuation Act, 1937; (iii) the passing of a satisfactory medical examination; (iv) one month's written notice on either side.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, must reach the undersigned not later than 3rd May, 1949.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

C. M. S. WELLS, Clerk of the County Council.

Clerk of the County Council.

COUNTY OF STOKE-ON-TRENT.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

TWO SENIOR ASSISTANT QUANTITY SURVEYORS. Salary A.P.T. Div., Grade VI, £596-2660.

very Cor. Salary A.P.T. Div., Grade VI, £595-2660.

Applicants must be competent to prepare Bills of quantities for large contracts, and experienced in all branches of Quantity Surveying practice. The selected applicants will be required to pass a medical examination, and the appointments will be subject to the usual conditions applicable to Local Government service.

Previous experience of Local Government work is not essential:

The successful applicants will be assisted in obtaining housing accommodation.

Applications, giving date of birth, particulars of training and experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, City Architect's Department, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Saturday, 14th May, 1949.

HARRY TAYLOR. Town Clerk.

Town Hall. Stoke-on-Trent.

11th April, 1949.

The Danas-term of t

Town Hall. Stoke-on-Trent.

11th April, 1949.

The Department of Estate Management, University of Cambridge, requires the services of ASSISTANT ARCHITECT. who has nassed the Final examination of the R.I.B.A.; ASSISTANT BUILDING SURVEYOR, who has bassed the Final examination of the R.I.C.S. Sub-division III (Building): ASSISTANT OUANTITY SURVEYOR, who has passed the Final examination of the R.I.C.S. Sub-division III (Quantities). Applicants for these three posts must be not less than 25 years of age.

Successful candidates will, subject to 6 months probationary service, be eligible for appointment to graded pensionable posts, the salary scales for which will be forwarded to applicants.

Detailed applications, with copies of three recent testimonials, to Secretary, Department of Estate Management, 74, Trumpington Street, Cambridge.

DURHAM COUNTY COUNCIL ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS AND OUTANTITY SURVEYING ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants and Quantity Surveying Assistants in the following rades in accordance with the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services scales and conditions:

Grade A.P.T., VI. £595-£660.
Grade A.P.T., IV. £595-£660.
Grade A.P.T., IV. £480-£525.
Grade A.P.T., III. £480-£485.
Grade A.P.T., III. £490-£485.
Grade A.P.T., III. £490-£485.
Grade A.P.T., II. £305-£456.
Misc. Grade, I. £315-£360.
The persons appointed will be required to pass a medical examination, and the appointments are subject to the Local Government Superannuation & L. 1937. and to the regulations of the County Council relating to sickness for the time being in force.

ouncil relating to sickness for the time being a force.

Canvassing will disqualify, and a candidate who i related to a member or a senior officer of the council must disclose this fact in his applica-

Council must discuss the control of age, extion.

Applications, giving particulars of age, experience and qualifications, previous and present
sppointments, etc., and giving the names of three
persons to whom reference can be made, should
be forwarded to Mr. G. B. Clavton, F.R.I.B.A.,
County Arrhitect, Court Lane, Durham, not later
than 6th May, 1949.

J. K. HOPE, Clerk of the County Council. Shire Hall. Durham.

Applications are invited for the following wholetime appointments on the permanent staff of the
City Architectural Department:—
(a) ONE ASSISTANT ARCHITECT. Salary en
Grade A.P.T., VII, commencing at £635 per
annum and rising to £710 per annum.
(b) ONE ASSISTANT ARCHITECT. Salary
on Grade A.P.T., V, commencing at £520 per
annum and rising to £570 per annum.
In certain circumstances, Housing accommodation may be made available for the successful
applicants.

In certain circumstances, Housing accommonation may be made available for the successful applicants.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualification.

(c) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., IV. commencing at £480 per annum and rising to £555 per annum.

(d) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £455 per annum.

Applicante should have passed the Intermediate examination of the Royal Institute of British Architects.

examination of the Royal Institute of British Architects.

(e) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £466 per annum.

(f) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum. Applicants for (f) should have passed the Intermediate examination of the Royal Institute of Chartered Surveyors (Quantities Division). Salary increments are subject to satisfactory service.

Chartered Surveyors (Quantities Division).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1956, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than ten days after the publication of this advertisement.

Canvassing, directly or indirectly, will be a disqualification.

D. E. B. GIBSON.

D. E. B. GIBSON, City Architect. 1A, Warwick Row, Coventry. 14th April, 1949.

GOVERNMENT OF NORTHERN IRELAND.
MINISTRY OF HEALTH AND LOCAL
GOVERNMENT.
ASSISTANT ARCHITECTS.
Applications are invited for nnestablished posts of Assistant Architect, Grade A, in the Ministry of Health and Local Government. The appointments, which are in connection with Housing, will so far as can be foreseen last for several years.

ments, which are in connection with Housing. will so far as can be foreseen last for several years.

Remuneration: Successful candidates will be romunerated within the salary range £700-£900 per annum, and the commencing salary within this range will be fixed in each case according to qualifications and experience.

Qualifications candidates, who must be Registered Architects by examination, should have experience in up-to-date house design and layout and some aptitude for research into comparative standards of design and construction.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 war, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to, discharge the duties efficiently.

Applications, giving date of birth, full particulars of qualifications and experience, together with copies of two recent testimonials, should be sent without delay to the Assistant Secretary (Establishments), Ministry of Finance, Stormont, Belfast.

49/5/30/449.

BOROUGH OF RADCLIFFE.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECT.

Applications are invited for the abovementioned permanent appointment in the office of the Borough Engineer and Surveyor, at a salary in accordance with Grade 'II (A.P.T. Division) of the consolidated National Scale of Salaries. i.e. £405, rising to £495 per sanum.

The person appointed will be responsible to the Borough Engineer for the preparation of plans, specifications, etc., for housing, public buildings, and general Municipal work in the Borough, and must have a thorough knowledge of present day building.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937.

visions of the Local Government Superannuation Act, 1937.
Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, and endorsed "Architectural Assistant." must be received by the undersigned not later than the 17th May, 1949.
Candidates should state in their application whether they are related to any member or senior officer of the Borough Council. Canvassing will-disqualify.

H. A. FOX, Town Clerk.

Town Hall. Radcliffe, Lancs. 14th April, 1949.

CITY AND COUNTY OF KINGSTON-UPON-HULL.

TOWN PLANNING DEPARTMENT.

Applications are invited for appointment as follows:—

ONLY OF THE PROPERTY OF THE PROPERTY

follows:—
(1) SENIOR PLANNING ASSISTANT. A.P.T.,
(3) SENIOR PLANNING ASSISTANT. B. T.,
(4) Crade VI, £595-£660 p.a. Qualifications: Degree
or diploma in Architecture or A.E.I.B.A.
Membership of the Town Planning Institute will

Grade VI. 2595-2560 p.a. Qualifications: Degree or diploma in Architecture or A.R.I.B.A. Membership of the Town Planning Institute will be an advantage.

(2) SENIOR PLANNING ASSISTANT. A.P.T., Grade VI. 2595-2560 p.a. Qualifications: Degree in Civil Eugineering or A.M.I.C.E. or A.M.I.C.E. or A.M.I.C.E. or A.M.I.C.E. or A.M.I.C.E. or A.M.I.C.E. or A.M.I.Mun.E. or A.R.I.C.S. or A.M.I.C.E. or Condidates who have had experience in the detailed planning of central areas, residential neighbourhoods and industrial estates.

(3) SENIOR PLANNING ASSISTANT. A.P.T., Grade VI. £595-2560 p.a. Qualifications: Degree or diploma in Architecture, Civil Engineering or A.R.I.B.A., or A.M.I.C.E., or A.M.I.Mun.E., or A.R.I.C.S., or A.M.I.Mun.E., or A.R.I.C.S., or A.M.I.Mun.E., or A.R.I.B.A., or A.M.I.C.E., or A.M.I.Mun.E., or A.R.I.B.A. or A.M.

ERNEST H. BULLOCK, Town Clerk.

Guildhall, Kingston-upon-Hull.

MERIONETH COUNTY COUNCIL.

Applications are invited for the following appointment in the County Planning Department.

Applications are invited for the following appointment in the County Planning Department:

SENIOR PLANNING ASSISTANT.

Salary 2450, rising by three annual increments of 215 to a maximum of 2495.

Applicants should have experience in all matters apportaining to the planning of a large rural area. The County of Merioneth includes over 500 square miles of potential National Park. and the work offers special opportunities in this field. An appreciation of the problems of such an area is desirable.

Preference will be given to candidates who have at least passed the Intermediate examination of the Town Planning Institute and who have all provides planning experience in the Local Government Service.

The successful applicant should be prepared to run a motor car for official purposes, for which a travelling allowance will be paid.

The appointment is subject to the terms and conditions of service applying to the Administrative, Technical and Clerical Officers of the County Council. The appointment will be terminable at the end of any month by one month's notice in writing on either side.

The successful applicant will be required to pass a medical examination and will be subject to the Local Government Superannuation Act. Applications, stating age, qualifications, present

to the Local Government Superannuation Act.
1937.
Applications, stating age, qualifications, present
position and salary, previous appointments held
and full details of experience, accompanied by
copies of two recent testimonials, are to be sent
to the undersigned not buter than Saturday.
21st May, 1949.
HUGH J. OWEN.
Clerk of the County Council.
20th April, 1949.
THE UNITED NEWCASTLE-UPON-TYNE
HOSPITALS
(ROYAL VICTORIA INFIRMARY).
Applications are invited for the post of CLERK
OF WORKS to the United Newcastle-upon-Tyne
Hospitals.
The duties will include general maintenance
and repairs of the hospitals, etc., within the
group.

and repairs of the hospitals, etc., within the group.

It is desirable that applicants should be able to prepare drawings and specifications and bills of quantities.

Age limit 45 years.

The salary will be at the rate of £595 per annum, rising by annual increments to £660 per annum. The appointment is subject to the National Health Service (Superannuation) Regulations.

Applications, stating age, qualifications and experience, together with the names of three referees, should be sent to the undersigned within two weeks of the publication of this advertisement.

A. W. SANDERSON,

A. W. SANDERSON, House Governor and Secretary.

HARLOW DEVELOPMENT CORPORATION.

APPOINTMENT OF EXECUTIVE

ARCHITECT.

Applications are invited for the post of Executive Architect, on the Corporation's permanent establishment, at a salary of 21,500 per annum. The successful applicant will be required to work under the general direction of the Architect Planner, Frederick Gibberd, F.R.I.B.A. A.M.T.P.I., and will be responsible for the execution of the building programme for the New Town of Harlow and for the general administration of the Architect's Department.

Applicants, who must be Fellows or Associates of the B.I.B.A., must have had first-hand experience in the organization and execution of large scale building contracts; wide experience of Local Government administrative machinery; and executive experience in handling staff. Experience in design is not essential as the preparation of the Corporation's plans and building designs is the responsibility of the Architect Planner.

The person appointed may be required to contribute to a superannuation fund either under the Local Government Superannuation Act, 1937, or an assurance scheme. The appointment is subject to the Corporation's Staff Rales and Conditions of Service, which are similar to those of the National Whitley Council.

Applications should be made on a form to be obtained from the General Manager, and should be returned under cover, endorsed "Executive Architect," to reach him at the address below not later than the 16th May, 1949.

W. ERIC ADAMS, General Manager.

W. ERIC ADAMS, General Manager.

Terlings, Gilston, Harlow, Essex. 14th April, 1949.

SHEFFIELD REGIONAL HOSPITAL BOARD.
The Board invites applications for the following appointment on its Headquarters staff, which is subject to the National Health Service (Superannuation) Regulations, 1947, and to medical examination

annuation) Regulations, 1947, and to medical examination.

ARCHITECT. Candidates should be Fellows or Associates of the Royal Institute of British Architects, and the experience of candidates should include hospital planning and construction and the relative professional administration and executive duties. The person appointed will be required to advise the Board on architectural matters concerned with hospitals administered by the Board. The salary will be £1,350×£50-£1.560, and the appointment will be terminable by three months' notice on either side.

Applications, stating age, present appointment and salary, and including a statement of qualifications and experience, together with the names of three persons to whom reference may be made, and endorsed "Architect." should be addressed to the Secretary, Sheffield Regional Hospital Board, Filwood House, Old Fulwood Road, Sheffield, 10, be received not later than 14th May, 1949. 697

to be received not later than 14th May, 1949. 697

FRIERN BARNET URBAN DISTRICT

COUNCIL.

APPOINTMENT OF TEMPORARY JUNIOR

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of
Temporary Junior Architectural Assistant within
the range of Grade II for the London area, 24202465, plus London weighting (£10-£30, according
to age).

2465. plus London weighting (£10-£30, according to age).

The appointment will be subject to the provisions of the Local Government Superannastion Act, 1937, and is terminable by one month's notice on either side.

Applications, stating age, experience, qualifications and past appointments, accompanied by copies of two recent testimonials, should be addressed to Kenneth R. Smith, Esq., A.R.I.B.A.

A.A. Dip., Architect, Town Hall. N.11, and should be received not later than Tuesday, 10th May, 1949.

G. T. FLETCHER.

G. T. FLETCHER.
Clerk of the Council.
Town Hall, Friern Barnet, N.11. 696

Public Works Department requires a DISTRICT ENGINEER, aged 24 to 36, for service in the Sudan, for organization and control of construction and maintenance of buildings, roads and other works. Candidates should be Corporate Members of the Institution of Civil Engineers or hold qualifications exempting them from Parts A and B of this Institution's Associate Membership examination or be Associates of the Royal Institute of British Architects.

Appointment will be either on (a) long term contract, or (b) short term contract for a period of two years, with or without eligibility for bonus as may be agreed. For long term contract alary ranges from £E.480 to £E.720, with gratuity, and for short term contract between £E.500 and £E.500 if contract provides for a bonus, and £E.600 and £E.500 if it does not. Starting rate would be determined according to age, qualifications and experience. Cost-of-living allowance is at present payable from £E.120 to £E.390 per annum, according to number of dependents. Outfit allowance of £E.600 payable on appointment provided starting salary does not exceed £E.500 on short term and £E.500 on long term contract.

No income tax is at present payable in the

contract.

contract.

No income tax is at present payable in the Sudan, £E1=£1 ©s. 6d. Strict medical examination. Free passage on appointment.

Further information and application form obtainable from Sudan Agent in London, Wellington House. Buckingham Gate, London, S.W.1. Please mark envelope "District Engineer, P.W.D."

NEWCASTLE-UPON-TYNE REGIONAL
HOSPITAL BOARD.
NORTH ORMESBY HOSPITAL,
MIDDLESBROUGH.
PROPOSED OUT-PATIENT DEPARTMENT.
The Board desires to appoint a Practising
ARCHITECT to prepare working drawings,
obtain tenders, and supervise the erection of a
small new consultative out-patient Department
and attendant works.
Architects interested in receiving an invitation
to act are requested to communicate, not later
than the 14th May, 1949, with the Secretary to
the Board.

E. B. JENKINS,

B. B. JENKINS, Secretary.

"Dunira," Osborne Road, Newcastle-upon-Tyne, 2. 14th April, 1949.

14th April, 1949.

CITY AND COUNTY OF THE CITY OF LINCOLN.

CITY HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, in the City Housing Architect's Department, at a salary of Grade I in the A.P. and T. Division of the scale of salaries of the National Joint Council for Local Authorities' Administrative, etc., Services, namely 2390 per annum, rising by annual increments of £15 to a maximum of £435 per annum.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age and experience, together with the names of two persons to whom reference may be made, should be delivered to the City Housing Architect, Stamp End, Lincoln not later than Monday, the 2nd May, 1949.

Canvassing, either directly or indirectly, will disqualify.

J. H. SMITH,

J. H. SMITH, Town Clerk.

Town Clerk's Office, Lincoln. 12th April. 1949. 687

BOROUGH OF KETTERING.
APPOINTMENT OF CHIEF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of
a Chief Architectural Assistant in the Borough
Surveyor's Department of the Borough of
Kettering, at a salary within Grade VI of the
A.P.T. Division of the National Scale of
Salaries (£595 per annum, rising by two increments of £20 and one of £25 to £660 per annum).
In determining the commencing salary the experience of the successful applicant will be taken
into consideration.

perience of the successful applicant will be taken into consideration.

Applicants must be Registered Architects, and preference will be ziven to persons who are Associates of the Royal Institute of British Architects. Applicants must have had experience of Local Authority housing schemes.

The appointment will be subject to the Local Government Superannuation Act. 1937, and to the provisions of the National Scheme of Conditions of Service, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and previous appointments and experience, together with the names of three referees, must be delivered to the undersigned not later than 14th May, 1949.

D. DUNSFORD PRICE,

D. DUNSFORD PRICE, Town Clerk.

Town Clerk's Office. High Street, Kettering.

Town Clerk's Office. High Street,
Kettering.

16th April. 1949.

COUNTY POROUGH OF ROTHERHAM.
CWIEF ARCHITECTURAL ASSISTANT.
Anolications are invited for the appointment of a Chief Architectural Assistant, in the office of the Borough Engineer, at a salary in accordance with Grade VIII (A.P.T.) of the National Scales (£685-£760 per annum), commencing at an incremental point within the grade. according to qualifications and experience of the successful candidate.

Anolicants must be Associate Members of the R.I.B.A. and have high ability in design.

The Architectural work in the denartment is very varied, and consists of Educational. Housing, Health and other types of Local Authority Buildings, and the volume of work is rapidly expanding

incs, and the volume of work is rapidly capanuline.

The appointment will be subject to the Conditions of Service adopted by the Council, and based on the National Scheme of Conditions of Service, and will be determinable by one month's notice on either side.

The post is superannuable, and the candidate selected for the appointment will be required to pass a medical examination.

Housing accommodation will be made available for the successful applicant if required.

Applicants must state whether they are related on any member or officer of the Rotherham County Borough Council, deliberate omission to disclose any such relationship will disqualify any candidate.

any such relationship will disqualify any candidate. Canvassing of members of the Council, whether direct or indirect, will disonalify. Annications, endorsed "Chief Architectural Assistant," stating are, qualifications, and details of experience, accommanied by conies of three recent testimonials, should be delivered to the undersigned not later than 19th May, 1949.

JOHN S. WALL, Town Clerk. Municipal Offices, Rotherham, Yorks.

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WOKING URBAN DISTRICT COUNCIL. APPOINTMENT OF SECOND ARCHITEC TURAL ASSISTANT.

Applications are invited for the above permanent appointment, in the Engineer and Suveyor's Department, at a salary in accordance with A.P.T. Division, Grade II, £420×£15-£46

veyor's Department, at a salary in accordance with A.P.T. Division, Grade II, £420×£15-£46 per annum.

Candidates must have had good general training and experience, be careful and competent in the preparation of surveys of buildings and land, and in the use of the level. Preference will be given to applicants who have passed the Intermediate examination.

The appointment, which will be subject to the provisions of the Local Government Superansation Act, 1937, and the passing of a medical examination, may be terminated by one month's written notice on either side. Housing accommedation will be available it necessary.

Form of application may be obtained from Mr. H. P. Tame, A.M.I.C.E., M.T.P.I. Registered Architect, Engineer and Surveys, Council Offices, Woking, and should be returned endorsed "Second Architectural Assistant," is gether with copies of three recent testimonias to the undersigned not later than Monday, 3rd May, 1949.

F. H. SMITH,

F. H. SMITH, Clerk of the Council. Council Offices, Woking, April, 1949.

Council Offices, Woking.

April, 1949.

HEMEL HEMPSTEAD DEVELOPMENT
CORPORATION.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—
(a) SENIOR ASSISTANT ARCHITECTS: (i) Architectural, (ii) Planning. Salary in the seak 2550 × 230—2750, according to age and experience, Applicants must be Associates of (for (ii)) the R.I.B.A. or (for (iii)) the T.P.I.

(b) ASSISTANT ARCHITECTS: (i) Architectural, (ii) Planning. Salary in the scale 2400× 225—2505, according to age and experience, Applicants must have passed the Intermediate examination of (for (ii)) the R.I.B.A. or (for (iii)) the T.P.I.

In addition applicants for the architectural posts should have a sound knowledge of the planning and design of buildings, the writing of specifications, and a working knowledge of town planning with special reference to the problems of new town development is expected. General conditions: The appointments will be subject to the Development Corporation's staff rules and conditions of service, in particular to one month's notice of termination on either side. Contributory superannuation, with an oppertunity of entering or continuing in a Local Government Superannuation Fund, will be provided.

The Corporation are unable at present to previde housing accommodation, but in certain circumstances temporary travelling and subsistence and the contribution of the contribution of

The Corporation are unable at present to previded.

The Corporation are unable at present to previde housing accommodation, but in certain circumstances temporary travelling and subsistence allowances may be oayable for a limited period whilst seeking permanent accommodation. These allowances amount to approximately \$25 per week, plus cost of fares home at week-ends. Applications, giving full particulars of age, qualifications and experience, together with the names of two persons to whom reference may be made, should be clearly marked on the envelope with the title of the post for which application is made, and addressed to reach the undersigned not later than Monday, 16th May, 1949.

W. O. HART,

W. O. HART,
General Manager.
Westbrook Hay, Hemel Hempstead, Herts. 733

Westbrook Hay, Hemel Hempstead, Herts. 78

Amended Advertisement.
CITY OF CARLISLE.
CITY RIGINER'S DEPARTMENT.
Applications are invited for the post of
PRINCIPAL ASSISTANT ARCHITECT
(GENERAL) on Grade VI (£595-£660).
Applicants should be Associates of the Royal
Institute of British Architects and have good
general Architectural experience.
The Council are taking steps to make available housing accommodation for the successful
policant if desired.
Forms of application and conditions of employment may be obtained from the City Engineer.
18, Fisher Street, Carlisle, to whom applications
should be returned not later than Monday, 16th
May, 1949.

H. D. A. ROBERTSON.

H. D. A. ROBERTSON.

15. Fisher Street, Carlisle.

15. Fisher Street, Carlisle.

DUNDEE COLIPGE OF ART SCHOOL OF

The Governors of the Dundee Institute of Art
and Technology invite applications for the consition of SENIOR LECTIRER AND STUDIO
INSTRUCTOR.

Applicants should be Members of the R.I.B.A.
and should preferably be holders of a degree of
diploma of a recognized School of Architecture.
Special experience in Constructional Subjects will
be an additional oualification.
Salary scales: Men. 2700 by 225 to £300;
women. 2560 by 220 to £500.

Annlications should be on the prescribed form.
cooles of which, with full particulars, may be
obtained from the undersigned.

G. R. HALL, Clerk and Treasurer.

19th April, 1949.

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UXBRIDGE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of architectural Assistant on Grades IV and V of the A.P.T. Division of the National Scales (£480 to £570 per annum, plus London weighting, at present £30 for age 26 and over).

Applicants should have had a good Architectural training, and preference will be given to candidates with experience of Local Authority Housing Schemes and holding a recognized processional qualification. The appointment will be subject to the National Scheme of Conditions of Service, to the provision of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. Applications, stating age, Marital state, present and previous appointments, qualifications, and giving details of experience, together with the names and addresses of three persons to whom reference may be made, hould be forwarded to Harold E. G. Stripp, Esq. A.M.I.C.E. F. R.I.C.S. Engineer, Surveyor and Architect, 265, High Street, Uxbridge, not later than Thursday, 12th May, 1949. Candidates are required to disclose in writing whether, to their knowledge, they are related to any officer or senior member of the Council.

JOHN POOLE.

JOHN POOLE,
Clerk of the Council.
Uxbridge, Middlesex.

B.B.C. invites artistics.

Clerk of the Council.

Cancil Offices, 265. High Street,
Uxbridge, Middlesex.

T34

B.B.C. invites applications from Registered Architects for the post of ARCHITECTURAL ASSISTANT, based in London. Applicants should preferably be school trained. They must possess a sound knowledge of modern building, have ability in design and be able to supervise junior architectural staff. Starting salary will be dependent on qualifications and experience, and is in a grade with annual increments of £35 and a maximum salary of £735 per annum. Prospects of promotion to a higher grade. The successful candidates will be eligible for consideration for appointment to the established staff (Contributory Pension Scheme) after a qualifying period of two years. Applications, stating age, qualifications and details of past and present appointments and experience, abould reach the Engineering Establishment Officer. Broadcasting Houselondon, W.I., within seven days of the appearance of this advertisement.

See North Amptonshipe Country Council.

County Architect's Department.

Applications are invited for the appointment of Senior Assistant Architect in A.P.T., Grades VIIII (£635, rising to £760).

Candidates should be Associates of the Ellena and construction of public buildings, including schools. Training at one of the coordinate of the other in a house in or near Northernton and

If the selected candidate is married, is unable to obtain a house in or near Northampton and is comoelled to maintain his family elsewhere, his salary will be temporarily increased by 25s. per week, together with such sum as will rembures him for the cost of a third-class return railway ticket to his family's home once every two months, his circumstances to be reviewed by the appropriate Committee of the Council stery three months.

Travelling and subsistence allowances will be paid in accordance with the Council's approved males.

paid in accordance with the countries approximates.

The appointment will be determinable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Acts.

Forms of application may be obtained from the County Architect, County Hall. Northampton to whom applications, accompanied by a copy of one recent testimonial, must be delivered not later than 12th May, 1949.

J. ALAN TURNER.

J. ALAN TURNER.

Clerk of the County Council.

County Hall, Northampton.

12th April, 1949.

686

COUNTY BOROUGH OF DARLINGTON.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following permanent appointments:—
(a) ONE ASSISTANT ARCHITECT. Salary
Grade VII (£635.-£710).
(b) TWO ASSISTANT ARCHITECT. Salary
Grade VI (£520.-£70).
(c) ONE ASSISTANT ARCHITECT. Salary
Grade Va (£520.-£70).
(d) ONE ASSISTANT ARCHITECT. Salary
Grade Va (£520.-£70).
(d) ONE ASSISTANT QUANTITY
SURVEYOR. Grade Va (£550.-£610).
Candidates for (a), (b), and (c) should preferably have previous experience on Education and
Housing work and be Members of the R.I.B.A.
Candidates for (d) should be experienced in the
preparation of Bills of Quantities. the checking of
Interim Valuations and the settling up of Final
Amounts. Preference will be given to Members
of the Royal Institute of Chartered Surveyors
(Quantities Division).
Applications. specifying the appointment (a),
(b), (c) or (d), together with age, qualifications,
present appointment with salary, previous experience,
and names and addresses of three referees,
the he sent to E. A. Tornbohm, A.R.I.B.A.
AM.T.P.I.. Borough Architect, Central Buildhars, Darlington, not later than Monday, the
16th May, 1949.

EDINBURGH CORPORATION.
CITY ARCHITECT'S DEPARTMENT.
Qualified ARCHITECTURAL ASSISTANTS required on following grades:
(a) £635-£710.
(b) £595-£660.
(c) £520-£570.
(d) £480-£255.
Applications, stating age, qualifications and experience, should be lodged with the undersigned not later than 14th May, 1949.
Successful applicants will require to pass a medical examination and will (with the exception of (e) above) be subject to the Corporation's Superannation Scheme.
A. G. FORGIE, A.R.I.B.A.,
Dip.Arch.(Edin.),
City Architect.
City Chambers, Edinburgh, 1.

DORAUGH OF HESTON, A.N. ELEWORTH.

Dip.Arch.(Edin.),
City Architect.
City Chambers, Edinburgh, 1.

BOROUGH OF HESTON AND ISLEWORTH.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following appointments on the permanent staff of the Planning Section of the Borough Engineer and Surveyor's Department:

(a) ADMINISTRATIVE ASSISTANT. A.P.T. (Grade IV), salary £480-£15-£252. Applicants should have experience in Local Government or other similar type of work, including the preparation of reports, correspondence, filing and general office routine, and a knowledge of Town and Country Planning procedure will be an advantage.

general office routine, and a knowledge of Town and Country Planning procedure will be an advantage.

(b) DRAUGHTSMEN. (i) A.P.T. (Grade II), salary £420-£15-£465; (ii) A.P.T. (Grade II), salary £420-£15-£456. Applicants, male or formale, must be capable and expecitions draughtsmen, and preference will be given to those with cartographical or planning experience.

The appropriate London "weighting" will in addition be paid in each case.

The appropriate London "weighting" will in addition be paid in each case.

The appropriate London "weighting" will be terminable by one month's notice. The conditions of service will be those of the National Joint Council for Local Authorities' Administrative, Professional and Clerical Services. The successful candidate will be required to pass a medical examination.

Forms of application may be obtained from the Borough Surveyor, 82, Lampton Road, Hounslow, by sending a foolscap stamped addressed envelope. The forms appropriately filled in must reach the undersigned not later than 9th May, 1949.

This advertisement is issued by authority of the Ministry of Labour and National Service.

HAROLD SWANN, Town Clerk

HAROLD SWANN.

Town Clerk.

Town Architect.

The appointment will be superannuable and subject to one month's notice on either side, and a candidate to be successful must pass a medical examination.

The appointment will be subject to such conditions of service as may from time to time be approved on behalf of the County Council.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference may be made, should be addressed to the County Architect. County Hall, Lewes.

April, 1949.

WEST SUSREX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments at salaries of nous consolidated)—

(a) SENIOR ASSISTANT A RCHITECT.

A.P.T. Division, Grade VI (salary £95 to £60 per annum). Applicants must be Associates R.I.B.A.

(b) ASSISTANT MAINTENANCE SURVEYOR.

A.P.T. Division, Grade VI (salary £95 to £60 per annum). Applicants should preferably have had training as a maintenance surveyor or architect. and be capable of preparing reports, specifications, schedules of dilaoidations, and approximate estimates of cost for maintenance works and improvements to brildings.

(c) CLERICAL ASSISTANT (MALE). Clerical Division (salary £95 to £40 per annum). Applicants should have had experience in connection with administrative work, and must have a good knowledge of sherkhand and typing.

Further particulars should be obtained from F. R. Steele. F.R.I.B.A. F.R.I.C.S. M.T.P.I., County Hall, Chichester.

13th April, 1949.

T. C. HAYWARD,

County Hall, Chichester.

HERTFORDSHIRE COUNTY COUNCIL.
APPOINTMENTS OF PRINCIPAL ASSISTANT
ARCHITECT AND CHIEF ASSISTANT
APPLICATIONS ARCHITECT.
Applications are invited for the following appointments:—
(a) PRINCIPAL ASSISTANT ARCHITECT.
2660 × 225 – 21,060.
Administrative experience and qualifications of leadership are essential to the post.
(b) CHIEF ASSISTANT ARCHITECT. £810 × £25 – £910.

(a) PRINCIPAL ASSISTANT ARCHITECT. 2506×25-21.06.
Administrative experience and qualifications of leadership are essential to the post.
(b) CHIEF ASSISTANT ARCHITECT. 2810×25-29.0.
Previous Local Government or similar experience is desirable but not essential.
Applicants should state age, qualifications (one of which must be Membership of the R.I.B.A.), and details of previous experience.
The successful candidates must provide and maintain a motor car, the standard allowance in accordance with the County Council's scale being paid.
The appointments will be subject to the Local Government Officers' Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.
The appointments will be determinable by 3 months' notice on either side.
Canvassing, either directly or indirectly, will be a disqualification.
Applications. together with three references, should be addressed to C. H. Aslin, F.R.I.B.A.
M.I.Struct.E.. County Architect, County Hall, Hertford, Herts. not later than the first post on saturday, 7th May. 1949.
CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) FOUR SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £560 per annum (A.P.T., Grade V).
(b) THREE SENIOR ASSISTANT ARCHITECTS. Salary £590 per annum, rising to £660 per annum (A.P.T., Grade V).
(c) TWO ASSISTANT OUNTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(d) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(e) TWO ASSISTANT OUNTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(e) TWO ASSISTANT OUNTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(e) TWO ASSISTANT OUNTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(e) TWO ASSISTANT OUNTITY SURVEYOR. Salary £590 per annum, rising to £570 per annum (A.P.T., Grade V).
(e) TWO ASSIST

should be addressed to the City Architect, 18. Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON.

Town Hall. Newcastle-upon-Tyne, 1.

8th April, 1949.

CITY OF PORTSMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Apolications are invited from Associates of the R.I.B.A. for the following appointments:—
(a) SENIOR ARCHITECT. Grade VIII (£685-576).
(b) PRINCIPAL ASSISTANT ARCHITECT. Grade VII (£7685-676).

The persons appointed will form the nucleus of a team to be encayed on an interesting and extensive civic rebuilding scheme, commencing with the rebuilding of the Guildhall.

Adultants for (a) should have had considerable experience of large building schemes, praferably civic buildings and assembly halls, Applicants for (b) should have had a sound general experience in the design of new buildings of a public character.

The appointments are permanent, and are

character.

The appointments are permanent, and are subject to the National Scheme of Conditions of Service, the passing of a medical examination, and determinable by one month's notice on either side.

side.

Applications, stating age, training, qualifications, experience, present and previous posts with
dates, toogether with names of three referees, to
the undersigned not later than 10 a.m. on Monday,
16th May, 1949.
Canvassing will disqualify.

V. BLANCHARD. Town Clerk.

City Council Chambers. 1, Clarence Parade, Southsea.

CITY AND COUNTY OF BRISTOL.

CITY PLANNING DEPARTMENT.

Applications invited for the following permanent appointments on the staff of the City Planning Officer:—

(a) SENIOR ASSISTANT (Development Plan). Grade A.P.T., VIII.

(b) SENIOR ASSISTANT ARCHITECT (Development Plan). Grade A.P.T., VIII.

Applicants for (a) should have passed the Final examination of the Town Planning Institute. and an additional qualification in Architecture, Engineering or Surveying will be an advantage; (b) should be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification, whilst preference will be given to an applicant who has passed the Final examination of the Town Planning Institute. In both cases applicants should have had experience in the preparation of Redevelopment Schemes for built-up areas, and an extensive knowledge of neighbourhood planning in a large City.

(c) SENIOR ASSISTANT (Survey and Redevelopment (c) SENIOR (c) SE

In both cases applicants should have had experience in the preparation of Redevelopment Schemes for built-np areas, and an extensive knowledge of neighbourhood planning in a large City.

(c) SENIOE ASSISTANT (Survey and Research). Grade A.P.T., VIII.

Applicants should have passed the Final examination of the Town Planning Institute and/or the Royal Institute of Chartered Surveyors; they should have had experience in carrying out initial surveys in relation to the preparation of Planning Schemes for large areas, whilst experience in the Survey and Research of large built-up areas of a City is essential.

(d) SENIOE ASSISTANT ARCHITECT (Reconstruction). Grade A.P.T., VIII.

Applicants should be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification, and have had considerable experience in the preparation of detailed plans for the reconstruction of War Damaged Areas of a City. Preference given to an applicant who has also passed the Final examination of the Town Planning Institute. Applicants for Crade A.P.T., IV.

(f) GENERAL ASSISTANTS (Survey and Research). Grade A.P.T., IV.

(g) LIAISON OFFICER. Grade A.P.T., IV.

(h) SENIOR ASSISTANTS (Development Control). Grade A.P.T., IV.

Applicants for (e) should have passed the Intermediate examination of the Town Planning Institute and have a general experience in connection with the preparation of Development Plans; (c) should have passed the Intermediate examination of the Town Planning Control and in the adminis

Acts and Regulations, Reconstruction, Development Control or Survey and Research would be an advantage.

The above appointments are subject to the provisions of the Local Government Superannustion Acts, 1937 and 1939 and to the National Scheme of the Conditions of Service, and the successful applicants will be required to pass a medical examination. Appointments terminable by one month's notice on either side.

Applications, staing the specific appointment applied for, and giving age, nationality, and whether married or single; educational training; professional qualifications: present position, salary, and date of appointment; previous positions, with salaries and dates of appointment; detailed particulars of experience; any further remarks in support of the application; notice required to terminate present appointment; names of two persons to whom reference may be made: whether related to a member or senior officer of the Council, should be delivered to the City Planning Officer, S. College Fields. Clifton. Bristol, S. not later than 13th May, 1949.

H. M. WEBB.

H. M. WEBB.
City Planning Officer.
736

City Planning Officer.
736

COTINTY BOROTIGH OF CROVDON.
NENIOR ASSISTANT ARCHITFCT.
Applications are invited for this appointment from suitably qualified candidates who have had Architectural experience (particularly housing) with a Local Anthority, and have held a position as Group Leader.
Salary Grade A.P.T., VI. 2625 p.a., rising to 2600 p.a. (inclusive of London weighting 230 per annum). The appointment is pensionable, subject to a medical examination.
The Council are mable to offer housing accommodation for this appointment.
Forms of application may be obtained from the Borough Environment. The Town Hall. Crovdon. and should be returned to him not later than Saturday, the 14th May. 1949.
Canvassing will disqualify.

E. TABERNER.

E. TABERNER. Town Clerk

CARDIGANSHIRE COUNTY COUNCIL.
COUNTY ABCHITECT'S DEPARTMENT.
Applications are invited for the appointment
of an ARCHITECTURAL ASSISTANT, Grade
II (£420×£15-£465), on the permanent staff in
the Architect's Department.
The appointment will be terminable by one
month's notice on either side and will be subject
to the Local Government Superannuation Act,
1937. The successful andidate will be required
to pass a medical examination.
Candidates should preferably have passed the
Intermediate examination of the R.I.B.A. and
should have a good general experience in architectural work.

should have a good general experience in accura-tectural work.

Applications, endorsed "Architectural Assis-tant, II." stating age, experience, previous appointments, present appointment, and salary, accompanied by two testimonials and the name of one referce, should be delivered to the signed not later than 13th May, 1949.

IVOR EVANS, Clerk of the Council. 14th April, 1949.

DEPARTMENT OF AGRICULTURE FOR
SCOTLAND.
There are five vacancies for ARCHITECTURAL CIVIL ENGINEERING or SURVEY-ING ASSISTANTS who have served a pupilage or apprenticeship of not less than four years to a Civil Engineer, Architect. or Surveyor. Candidates must be under 36 on 1st April, 1949.
Salary 2-30 (age 23 or over) by approximately 2-20 to 2510 per annum.
Candidates under age 28 and those appointed to headquarters other than Edinburgh or Glasgow will receive slightly less.
Appointments will in the first instance be temporary and non-pensionable, but there will shortly be a competition for established pensionable posts. Apply in writing, giving date of birth and full details of qualifications and experience, to the Appointments Department. Technical and Scientific Register, Ministry of Labour and National Service, York House, Kingsway, London, W.C.2, quoting order number E, 215/49. Applications will not be accepted after 7th May, 1949.

Applications will not be accepted after 7th May. 1949.

COUNTY BOROUGH OF GATESHEAD. Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VI (£595-£660 p.a.).

(b) JUNIOR ARCHITECTURAL ASSISTANT. A.P.T., Grade I (£390-£435 p.a.).

(c) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VI (£595-£666 p.a.).

(d) MALE CLERK. with Building Trade experience. General Division (£245 at 2 years, rising to £385 at 32 years of age).

Candidates for (a) must be Registered Architects and be Corporate Members of the Royal Institute of British Architects. They should have good experience in the design and construction of Reucation and Public Buildings.

Candidates for (b) should have had previous experience in an Architect's office and must have passed the R.I.B.A. Intermediate examination.

Candidates for (c) should be Members of the Royal Institution of Chartered Surveyors, and should be experienced in the prevaration of Bills of Quantities, Specifications, Estimates, and the settlement of Final Accounts.

Candidates for (d) should bave had experience in a Contractor's office and may a contractor of Building Terms and General Building Routine.

The appointments will be subject to the Local

Routine.

The appointments will be subject to the Local Government Superannuation Act, 1937. and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

The question of housing accommodation, if found necessary, will be discussed at the inter-

view. Applications to be made on forms obtainable from the Chief Architect, should be returned together with copies of three recent testimonials, to H. J. Cook, A.R.I.R.A., M.I.Struct.K., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, 8, not later than 14th May. 1949.

J. W. PORTER. Town Clerk.

Town Hall. Gateshead, 8. 13th April, 1949.

13th April, 1949.

LONDON COUNTY COUNCIL.

Brixton School of Building, Ferndale Road, S.W.4. required to commence as soon as possible Full-time LFCTURERS in the following subjects: (1) Surveying: anolicants should be Associates or Fellows of B.I.C.8. with good professional experience in building, quantity or valuation surveying; teaching experience a recommendation; a social allowance will be considered in connection with the post. (2) Building, Structural Engineering or Surveying; applicants should be Corporate Members of the appropriate prefessional Institution or hold equivalent qualification—experience in industry or professional practice essential, teaching experience a recommendation. Burnham (London) Scale salaries with initial increments. within prescribed limits, for approved industrial experience and foll-time teaching experience and additions for Graduate or convalent qualifications and training where applicable. Application forms (stamped addressed foelscap envelope required) from the secretary at the school, returnable by 14th May, 1949. (372)

CITY OF BATH.

CITY PLANNING DEPARTMENT.

Applications are invited for the appointment of a SENIOR PLANNING ASSISTANT, Grade Y (£520-£570), or Grade YI (£525-£660), according to qualifications and experience. Preference will be given to candidates who possess a recognised Town Planning qualification. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination. Applications, stating age, qualifications and experience, together with the names of three referees, should be forwarded to the City Planning Officer, 2, Princes Buildings, Bath, not lake than 7th May, 1949.

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than 7th May, 1949.

BY THE STATE OF PUDSEY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

AMENDED ADVERTISEMENT.

Applications are invited for the appointment of an Architectural Assistant, in the Borough Engineer and Surveyor's Department, at a salar in accordance with Grade III of the Arri Division, namely 2460 per annum, rising by annual increments of £15 to a maximum of £86 per annum.

privision, namely 2400 per annum, rising mannual increments of £15 to a maximum of £96 per annum.

Candidates should have had experience in the Design of Houses and Estate Layouts, Supervision of Contracts of Building, Road and Sewer Works, Setting Out and Measurement of Work, and Keeping of Records.

The appointment will be subject to (a) the Scheme of Conditions of Service, (b) the prisions of the Local Government Superannualise Acts, and (c) the successful candidate passing a medical examination.

The Council will consider providing suitable housing accommodation (if necessary) for the successful applicant.

Applications, stating age, giving full details of training experience, present and previous positions held and qualifications, and accompanied by copies of not more than three recent testimonials must be delivered to the Borough Surveyor, Tewn Hall, Pudsey, not later than 9 a.m. on Monday, the 9th May, 1949.

Canvassing, either directly or indirectly, will be a disqualification.

W. R. CRUSE, Town Clerk, Town Hall, Pudsey.

Canvassing, citater directly or indirectly, will be a disqualification.

Town Hall, Pudsey.

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent appointment of ASSISTANT ARCHITECT at a salary in accordance with National Grade VI (£955-£660 p.a.). Candidates must be registered architects, and must hold a recognized architectural qualification; they must have had a good general architectural experience, and have, as cound knowledge of design, construction and specifications. The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions of Service will apply.

Applications must state clearly age, qualifications, full details of training, experience, and previous appointments, with dates, salaries, and designations; the names and addresses of three persons to whom reference may be made must be stated. Applications must be delivered to C. H.

Thurston, I.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, not later than Monday, 9th May, 1949.

MESTMORLAND COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

WESTMORLAND COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following

COUNTY PLANNING DEPARTMENT Applications are invited for the following appointments:—

(a) ASSISTANT PLANNING OFFICER. Grade A.P.T., Va, £550.£610 per annum.
Applicants should have passed the Final examination of the Town Planning Institute of hold other appropriate qualifications. Experience and a sound knowledge of the work involved in the conduct of factual planning surveys, keeness. and an intelligent approach to the planning problems of an area with high amenity value are essential. Previous Architectural training and experience whilst not essential would be as advantage. The successful candida'e will be appointed at a commencing salary within the grade, according to qualifications and experience.

(b) JUNIOR PLANNING ASSISTANT, Grade Misc. I. 2315.£360 per annum.
Applicants should be good draughtsmen, and be capable of assisting in the preparation of planing maps.

The amountments will be subject to the terms.

Applicants should be good draughtsmen, and secapable of assisting in the preparation of planning maps.

The appointments will be subject to the terms and conditions of service of the National Joint Council, and the Local Government Superannustion Act, 1937, and will be terminable by one month's notice on either side, expiring at the ead of a calendar month. The successful candidates will be required to pass a medical examination.

Applications should include particulars of age, education, technical training, qualifications, present salary and present and previous appointments, with full details of experience, and should be forwarded, together with a copy of one recent testimonial and the names of two referees, to R. H. Cromoton, A.R.I.B.A., A.M.T.P.I., County Planning Officer. County Hall, Kendal, to reach him not later than 14th May, 1949.

H. B. GREENWOOD,

Clerk of the County Council.

COUNTY OF LINCOLN—PARTS OF LINDSEY.

THE County ARCHITECT'S DEPARTMENT. The County Council will consider making an allowance in the case of married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their home outside Lincoln of 25s. set week for six months, plus third-class railway hare te their home each two months.

Applications are theorefore invited for the following vacancies:

ASSISTANT ARCHITECTS AND ASSISTANTS:

(a) Three vacancies. Grade VI, £595-£560 per annum.

annum.
(b) Two vacancies. Grade V, £520-£570 per (c) One vacancy. Grade IV, £480-£525 per anum. (d) Two vacancies. Grade III, £450-£495 per (e) Three vacancies. Grade II, £420-£465 per

QUANTITY SURVEYOR: (f) One vacancy. Grade VII, £635-£710 per

QUANTITY

(f) One vacancy. Grade VII, £635-£710 per annum.

Applicants need not have had previous Local Geremment experience, but preference will be riven to applicants who are Associates of the LLBA, or the R.I.C.S., or in the case of (c), (d) and (e) who are Registered Architects.

Applications, stating which post is applied for, age, qualifications, experience, present salary, and whether to their knowledge they are related to members or senlor officers of the County Commit, accompanied by copies of two recent issumonials, should be sent to the undersigned not later than Wednesday, 4th May, 1949.

A. RONALD CLARK, A.B.I.B.A., A.M.T.P.I., County Offices, Lincoln 676

Gunty Offices, Lincoln

GLAMORGAN COUNTY COUNCIL.
HIGHWAYS AND PLANNING
DEPARTMENT.
Applications are invited for the appointment of an AREA PLANNING OFFICEE in the County Flanning Department at a consolidated salary of 250 per annum, rising by annual increments of 250 to a maximum of £910.

In addition, a lodging allowance at the rate of £75 per annum will be granted if the person appointed is (a) not already in the employ of the County Council and is employed outside the administrative county; (b) maintaining a home elsewhere; and (c) unable to obtain suitable accommodation within a reasonable distance of Fostypridd. This lodging allowance is payable up to a maximum period of 6 months.
The person appointed will be required to take agree of the Eastern Area Planning Office at Fostypridd and will be responsible for the control of development in the area together with

certain duties in connection with the survey and preparation of development plans.

Applicants should possess a qualification in Civil Engineering, Surveying, Architecture or Planning, and should have had considerable planning and administrative experience in the position involving the control of staff.

The appointment will be subject to the National Scheme of Conditions of Service; to the staffing regulations of the County Council from time to time in force, and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The appointment will be subject to three calendar months' notice on either side. Applicants must not be over 45 years of age, but this condition may be relaxed in the case of a person already in the service of the County Council or a specially suitable candidate already employed by another Local Anthority. In the case of exservice applicants, the age limit will be raised by the number of years served in H.M. Forces during the recent war.

The person appointed will be required to provide and maintain a motor car for which an allowance is made on the appropriate County Council scale.

Applications stating age, qualifications, experience and present salary, accompanied by a copy of a recent testimonial and the names and addresses of two referees, should be addressed to the County Planning Officer, Mr. E. John Powell, M.Inst.C.E., County Hall, Cardiff.

Eavelopes should be endorsed "Appointment of Area Planning Officer."

The latest date for the receipt of applications is Monday, 9th May, 1949.

A. CLIFFORD WALTER,

Deputy Clerk of the County Council.

Glamorgan County Hall, Cardiff.

668

Glamorgan County Hall, Cardiff.

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
Vacancies exist for technical assistants in the Architect's Department for the preparation of drawings and specifications in connection with the construction and adaptation of varied types of public buildings.
Commencing rate (up to £580 a year), according to qualifications and experience. The positions will be temporary in the first instance, but successful candidates will be subject to the Council's Superannuation and Provident Fund, and will be eligible for promotion on merit to the permanent staff and to higher positions on the occurrence of vacancies.
Full particulars and form of application from the Architect to the Council (quoting AB./P/A). The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope).

BARNET URBAN DISTRICT COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., V, of the National Scheme (£520-£576) per annum), plus the appropriate London weighting.

Applicants should have sound experience of housing work, the preparation of working drawings, and the supervision of work under construction, and preference will be given to Associate Members of the R.I.B.A.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination.

No housing accommodation cap be offered by the Council.

Applications, stating age, qualifications, and particulars of present and previous appointments, together with copies of three recent testimonials, should reach the Engineer and Surveyor.

Ravenscroft House, Wood Street, Barnet, Herts, on or before the 20th May, 1949.

ALFRED S. MAYS,
Clerk of the Council.
Clerk's Department, Municipal Offices,
Wood Street, Barnet. 710

COUNTY BOROUGH OF WALLASEY.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited by the 18th May, 1949, for the above appointments in the Department of the Borough Architect, at salaries within the range of Grade A.P.T., VI (£595-£660) of the National Scale of Salaries.
Forms of application, etc., may be obtained from the Borough Architect, Town Hall, Wallasey.

EMRYS EVANS, Town Clerk.

NORTH RIDING EDUCATION COMMITTEE.
Applications are invited from men for the permanent post of JUNIOR ARCHITECTURAL ASSISTANT. Salary according to Grade A.P.T., I, of the National Joint Council Scales, i.e., £390×£15 to £435 a year. The post is subject to the Local Government Superannuation Act, and the successful candidate will be required to pass a medical examination by the County Medical Officer. Canvassing disqualifies. Application forms, which may be obtained from the undersigned, should be completed and returned by 7th May, 1949.

This advertisement appears with the permission of the Ministry of Labour and National Service.

F. BARRACLOUGH.

Secretary for Education.

Education Offices, County Hall,
Northallerton.

742

BELLS AND TOWER CLOCKS



Mt. LEBANON, PITTSBURGH, U.S.A. Auto-swinging bell 1947

CHIMES RINGING PEALS CARILLONS

also all types of

TOWER CLOCKS

Dials from 2 feet 6 in. dia. up to the largest size made

CROYDON, SURREY

DOMESTIC BOILERS



No. 25M (Illustrated)

- Designed in accordance with British Standard No. 758
- Patented hinged hotplate cover
- Vibratory type shaking
- Constant hot water
- Low fuel consumption
- Durable enamel finish
- Easy clean surface
- Made in sizes from 21,000 to 41,000 B.T.U's.

Full Particulars from:

R. TAYLOR & CO. (Ironfounders) LTD.

Muirhall Foundry, Larbert, Stirlingshire London Office & Showrooms :-66, Victoria Street, S.W.I.

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Tenders for Contracts
6 lines or under, 10s.; each additional line, 1s. 6d.

6 lines or under, 10s.; each additional line, 1s. 6d.

CUMBERLAND COUNTY COUNCIL.

TAR PAVING.

Contractors, having the necessary plant and specialising in Tar Paving, who are desirous of tendering for work in connection with repairs to School Playgrounds in the following districts, are invited to submit their names and addresses in writing to the County Architect. 1s, Portland Square, Carlisle, not later than Wednesday, 11th May, 1949:

Whitehaven, Distington, Frizington, Millom, Workington, Maryport, Broughton Mor, Oughterside, Bewcastle, Alston, Croglin, Kirkbride, Fir Ends.

Contractors should state for which district or

bride, Fir Ends.
Contractors should state for which district or districts they wish to submit tenders.
The Council do not bind themselves to accept the lowest or any tender.
G. N. C. SWIFT.
Clerk of the County Council.

Architectural Appointments Vacant

Architectural Appointments Vacant

Name of under, bs.; such additional line, us. of

THE CO-OPERATIVE WHOLESALE
SOCIETY. LIMITED, invite applications for
the following appointments on the Staff of the
Manchester Architects' Department:

TWO SENIOR ASSISTANT ARCHITECTS.
Salary range £875-£775 per annum. Applicants
should preferably be Associates of the Royal Institute of British Architects and must have had
considerable experience oither in design and
planning of modern factories or large shopping
emporiums and retail shops. A high standard of
architectural design is expected, in addition to
administrative ability and experience.

THREE ASSISTANT ARCHITECTS. Salary
range £470-£536 per annum. Applicants should
have a sound knowledge of building construction
and architectural design and be able to produce
working drawings and details, under supervision,
from sketch plans.

THREE ASSISTANT ARCHITECTS.
Salary
range £400-£465 per annum. Applicants should
be good draughtsmen and possess a sound
knowledge of construction and some general
architectural experience.

The above appointments are permanent and

range 2400—2465 per annum. Applicants should be good draughtsmen and possess a sound knowledge of construction and some general architectural experience.

The above appointments are permanent and offer prospects of upgrading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannation scheme.

Applications, stating age, experience and qualifications to be addressed to:—The Chief Architect, Co-operative Wholesale Society, Ltd., I, Balloon Strees, Manchester, 4. 614

A SSISTANT for E. Midlands effice. Good draughtsmanship and practical experience of demestic work, alterations, maintanaace, and quantities desirable. Box 1945.

A RCHITECTURAL Staff required by London Firm of Architects.—(a) SENIOR QUALITIED ASSISTANTS, (b) ASSISTANTS, R.I.B.A. Intermediate standard, preforably those baving some experience of surveying and levelling; (c) JUNIOR ASSISTANTS and IMPROVERS. Apply by letter, stating experience, age, and salary required. Box 2235.

TUNIOR ASSISTANT required immediately

JUNIOR ASSISTANT required immediately for office, West Riding of Yorkshire; must be experienced in working drawings, details, levelling, etc. Write, 'giving age, experience, and salary required, Box 612.

Salary required, Box 612.

SEELY & PAGET, P./L.R.I.B.A., require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter; giving usual details, to 41, Cloth Pair, E.C.1.

OTALIFIED ARCHITECTURAL ASSISTANT required; age about 30; salaried partner-ship if suitable after probationship will be offered. Apply Box 667.

offered. Apply Box 667.

NE ASSISTANT, up to Inter. stage, with office experience; salary £8; progressive job for a suitable man. ONE TEMPORARY ASSISTANT, experienced in measuring up and detailing; salary £10-£12. F. J. Lenton & Partners. Chartered Architects, Stamford. 655

Partners, Chartered Architects, Stamford. 655

OLLIFIED CHIEF ASSISTANT (not under 35) required for busy East Anglian office; housing accommodation provided if required; car owner-driver; good designer; experienced in controlling jobs through all stages. Reply, stating salary required and with full details, to Box 647.

ASSISTANT required for Commercial and Municipal projects; at least Intermediate standard; 3 years' office experience; capable of working up from rough sketches. Box 701.

CITY Architects require ASSISTANTS. Write or telephone L. M. Gotch & Partners, 21, Bunhill Row, E.C.1. Monarch 6456.

A SENIOR ARCHITECTURAL ASSISTANT, salary £500-£650, and a JUNIOR ASSISTANT, £600-£500 salaries according to experience, required immediately. Telephone: W. Curtis Green, R.A., Son & Lloyd, 5, Pickering Place, St. James's Street, S.W.1. Whitehall 1933.

WEST BROMWICH.—ASSISTANT required for General Practice; salary according to qualification and experience. A. J. Bussell Green, L.R.I.B.A., Queens Chambers, High Street, West

A RCHITECTS require ASSISTANT; R.I.B.A. Intermediate standard; commencing salary upwards of £250, according to ability. Watson, Johnson & Stokes, 5, Victoria Square, Bir-

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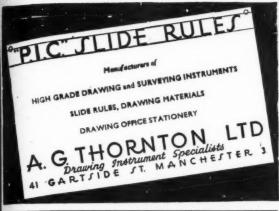
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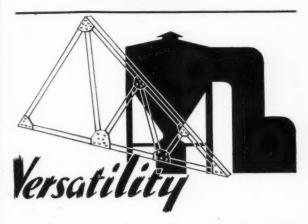
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